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PUBLISHED BY THE
MISSOURI SCHOOL OF MINES
AND METALLURGY

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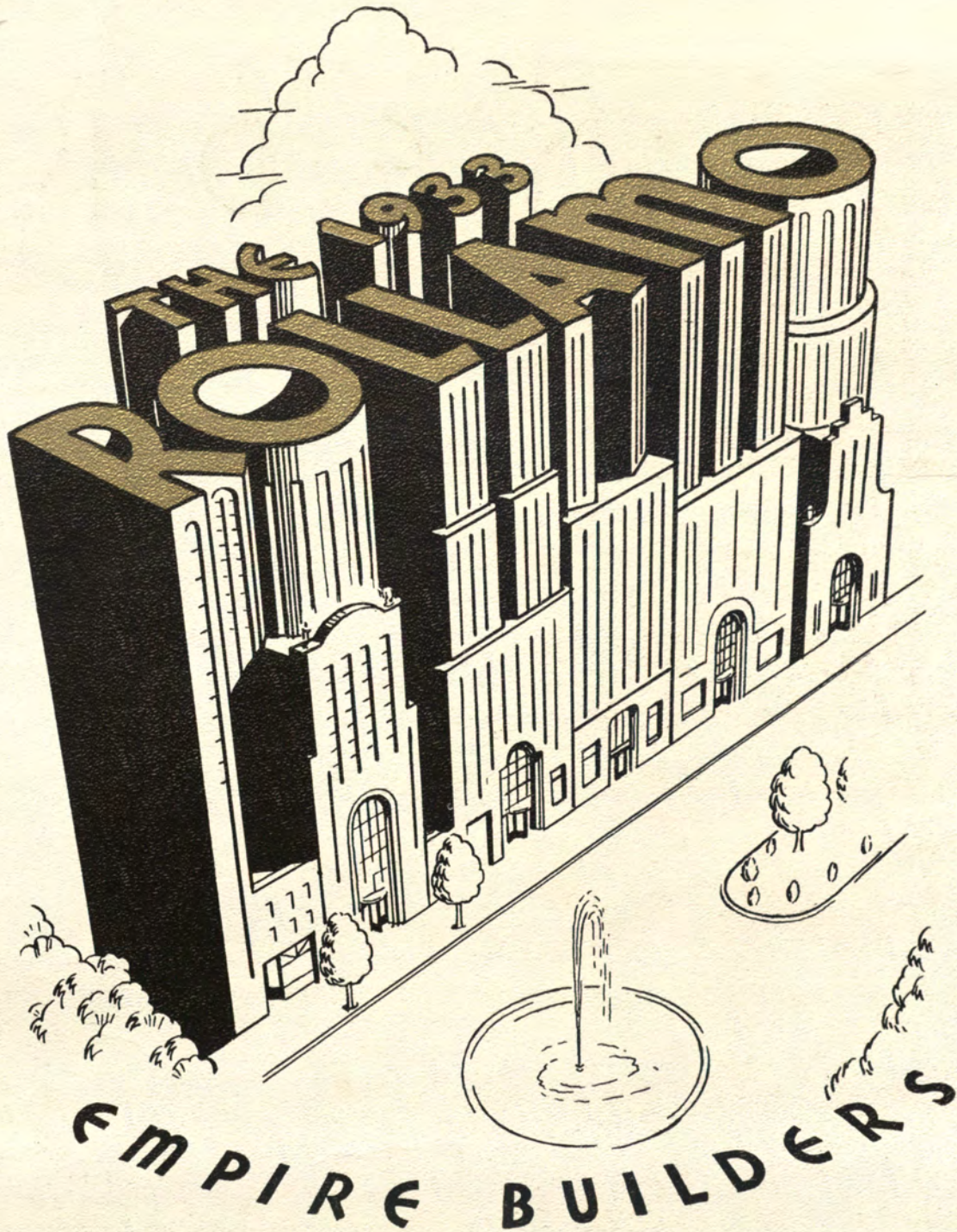
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Published by the
**Missouri School of Mines
and Metallurgy**

Rolla,

Missouri



EDIC

DOWN through the ages man has been an Empire Builder. Empires of the past have been defined by geographical limits, composed of subjugated peoples, and maintained by the Power of the Sword.

The instruments of the modern Empire Builder are Science and Knowledge. With them he has delved into the bowels of the earth, penetrated the mystery of the air, and made conquests of all the forces of nature.

The Missouri School of Mines has made many contributions to the ranks of these modern Empire Builders. The lives and work of those men form a fitting theme for this book, and throughout its pages we have attempted to portray the result of their influence on the scientific and engineering world.

To those men, graduates and former students, of our Alma Mater, who, by the application of untiring effort and engineering training, have gained acknowledgment and prestige for themselves, honor for their school, and enduring achievement for mankind, we, the Rollamo Board of 1933, do with all sincerity, dedicate this book.



ATION

DANIEL COWAN JACKLING

Mining and Metallurgical Engineer and Executive

President of the Utah Copper Co.
Received B. S. in Metallurgical Engineering, M. S. M., 1892.
Jackling was instrumental in the development of low grade copper deposits in Utah. Mr. Jackling received the Fritz medal in 1932.

JOHN A. GARCIA

*President of Allen and Garcia Co.,
Construction Engineers*

Received B. S. in Mining Engineering, M. S. M., 1900.
Member of Tau Beta Pi.
Achieved the introduction of modern engineering methods in mining and the preparation and production of bituminous coal.
Writer of articles for technical journals. Past President of A. I. M. M. E.

GEORGE ALBERT EASLEY

*Vice-President of the International Mining
Corporation, New York*

Received B. S. and M. E. at M. S. M.
Member of Kappa Alpha and Tau Beta Pi.
An owner of tin and tungsten properties and special partner of Coggeshall and Hicks, bankers and brokers.

MERVIN J. KELLY

*Research Physicist, Western Electric Co. and Bell
Laboratories, New York City*

Received B. S. at M. S. M., 1914; M. S. at University of Kentucky, 1915; Ph. D. at University of Chicago, 1919.
Member of Sigma Nu and Tau Beta Pi.
During the rapid development of radio communication, Mr. Kelly became interested in vacuum tubes and was one of the principal research engineers who made possible the radio communication service across the Atlantic.

HARLAND H. HOPPOCK

Buyer for the W. T. Rawleigh Company

Received B. S. in Mining at M. S. M. in 1920.
Mr. Hoppock has led the life of the typical mining engineer often portrayed so glamorously by modern authors. His way has been lighted by the miner's lamp from Vancouver to India. In three years he visited twenty-seven different countries, notably the Balkan States, Italy, Hungary, the Dutch East Indies, India, and Madagascar. He visited many countries as purchasing agent for a company interested in importing raw materials for use in their factories.



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Track and Tennis, Golf
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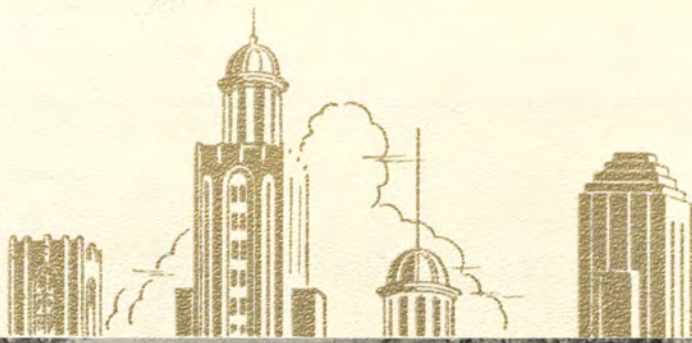
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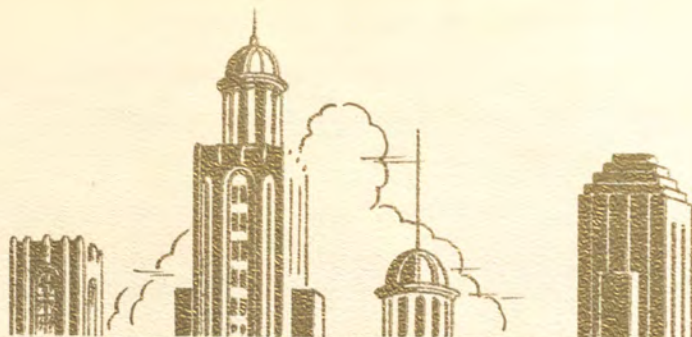
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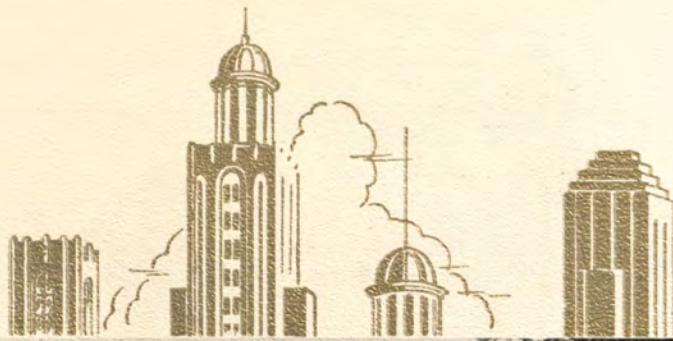
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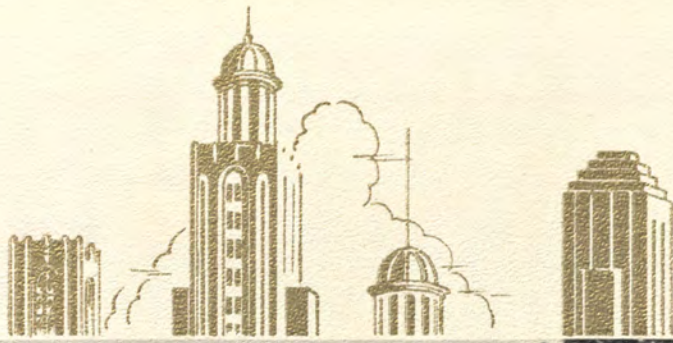
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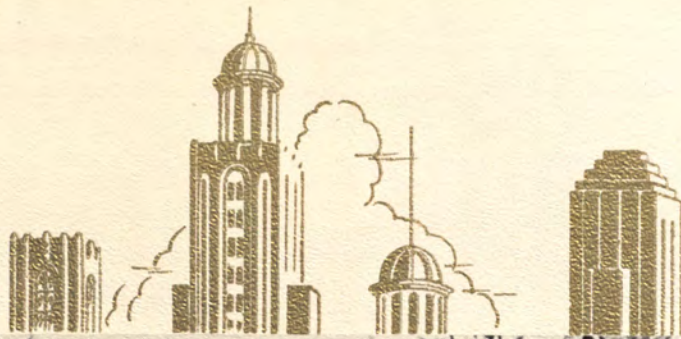


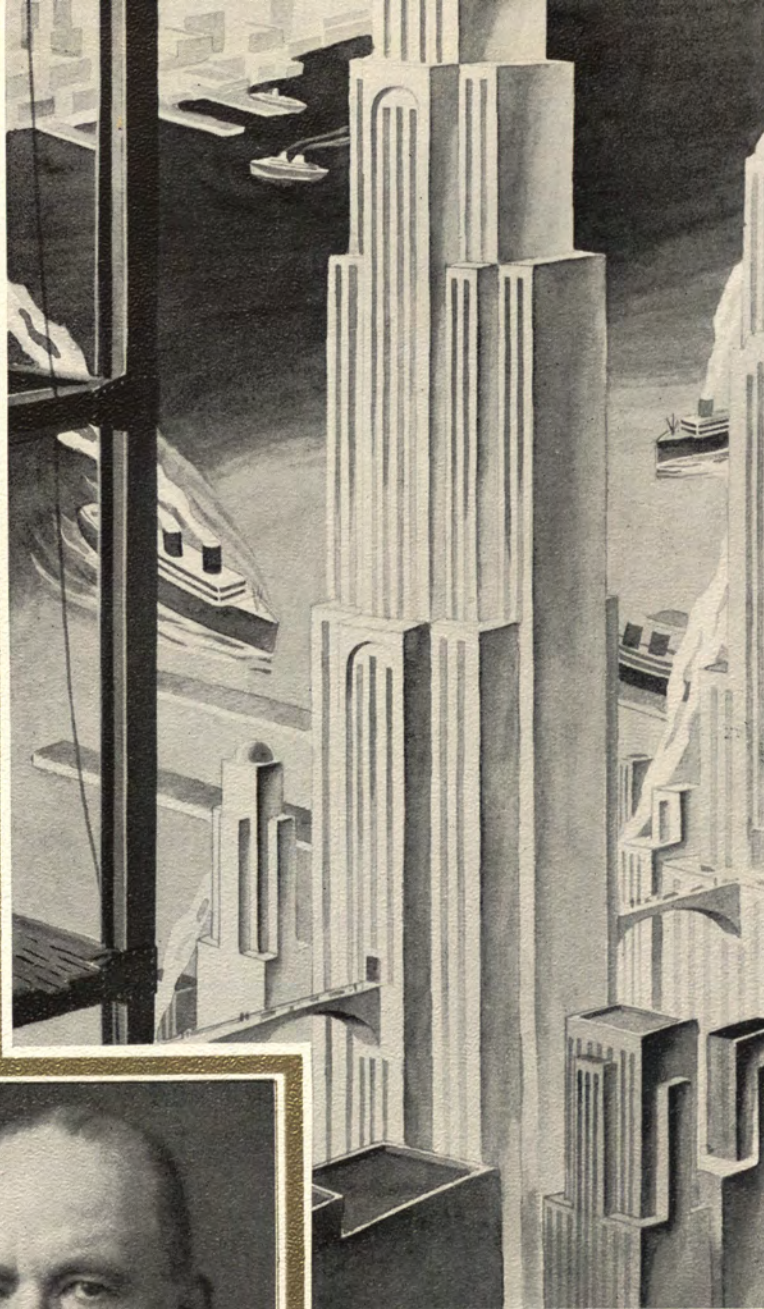












PERSONNEL

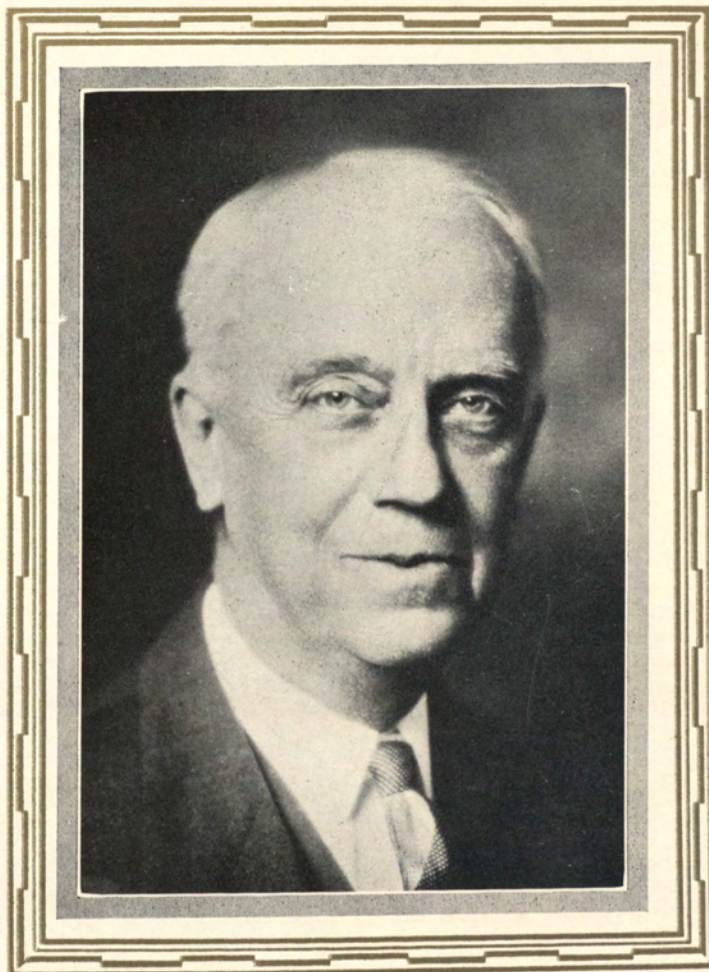
D. C. Jackling



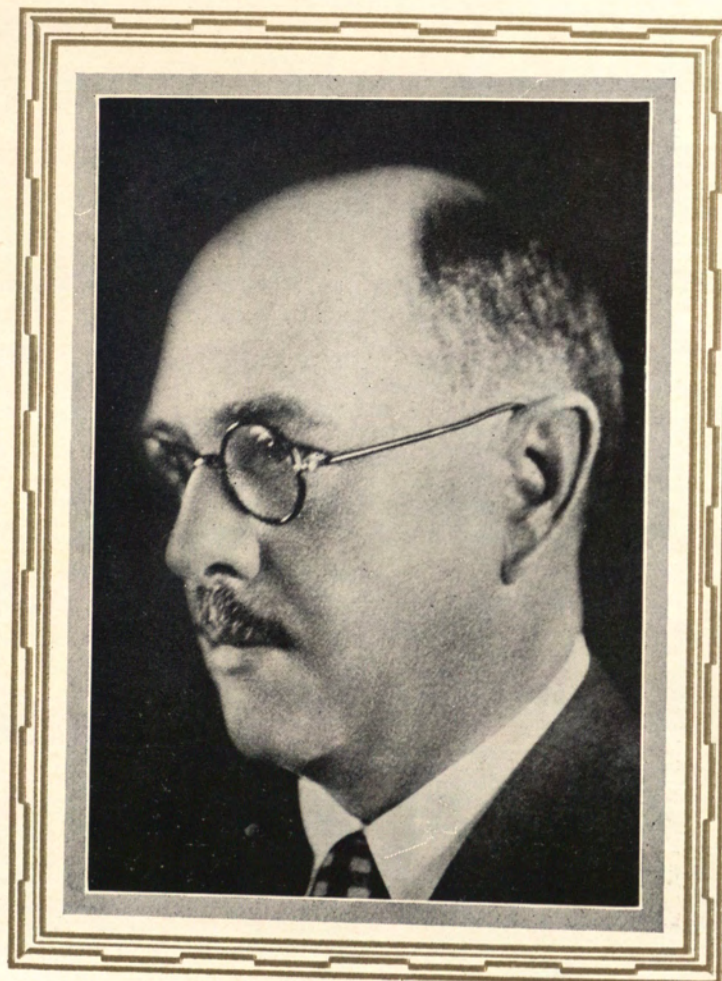
FACULTY







WALTER WILLIAMS, LL.D.
President of University of Missouri



CHARLES HERMAN FULTON
Director, Missouri School of Mines
E. M., D. Sc.

*Theta Delta Chi, Sigma Xi, Tau Beta Pi,
Phi Kappa Phi, Theta Tau.*



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Registrar
B. S. C. E.
Sigma Nu, Phi Kappa Phi



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Professor of Mathematics



CARROL RALPH FORBES
B. S., E. M.
Professor of Mining
(On leave of absence)

JOSEPH WAYNE BARLEY
A. B., A. M., Ph. D.
Professor of English

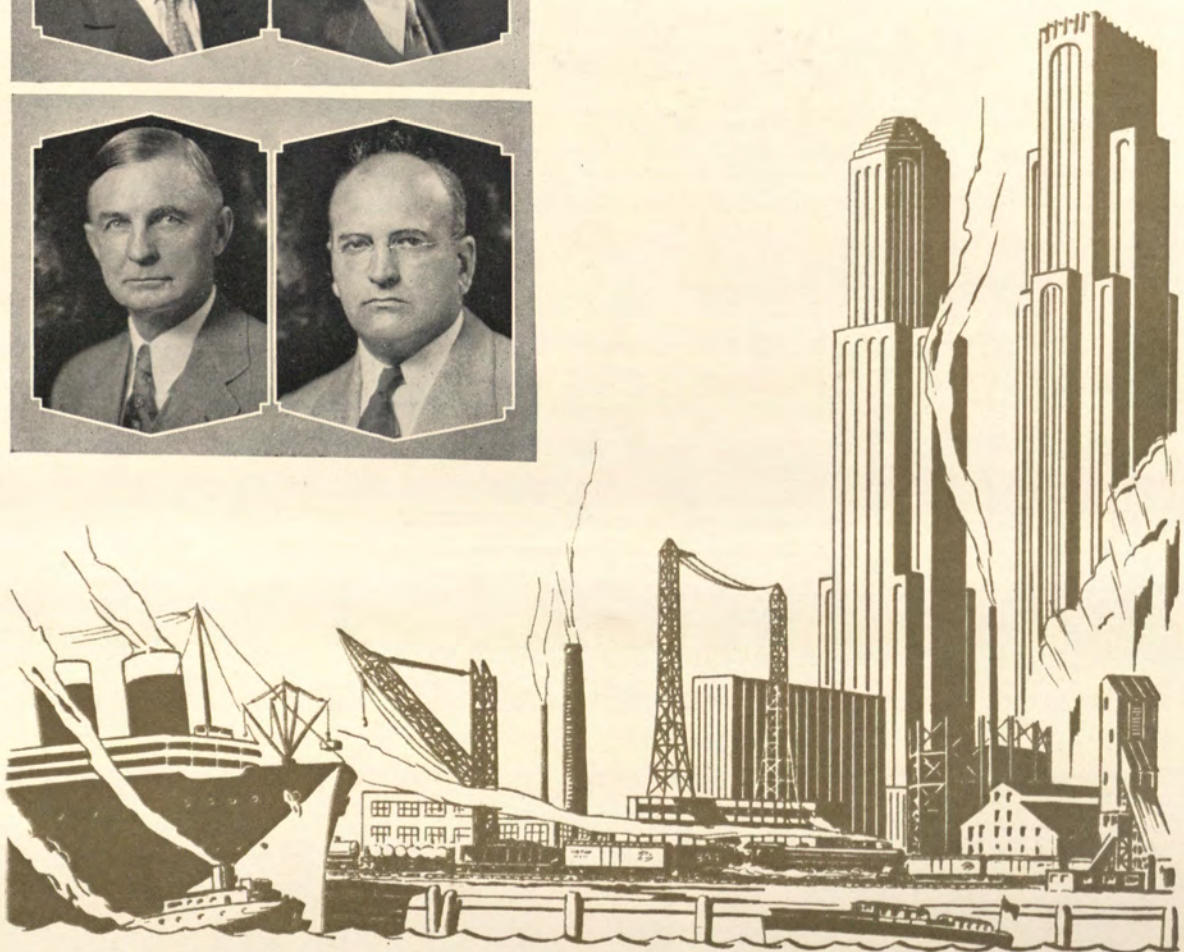
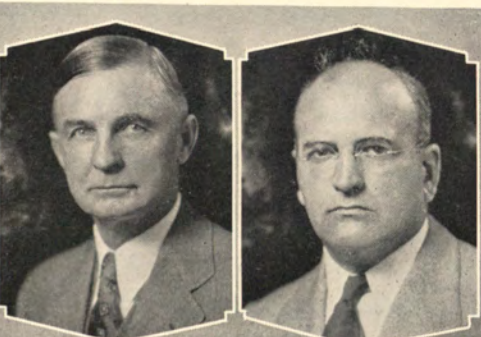


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B. S., M. E.
Professor of Mechanical Engineering



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GARRETT A. MUILENBURG

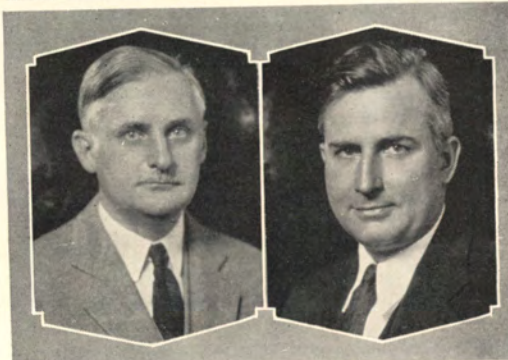
M. S., E. M., Ph. D.

Professor of Economic Geology

JOHN RAY HARDIN, B. S.

First Lieutenant Corps of Engineers,

U. S. A., *Professor of Military
Science and Tactics*





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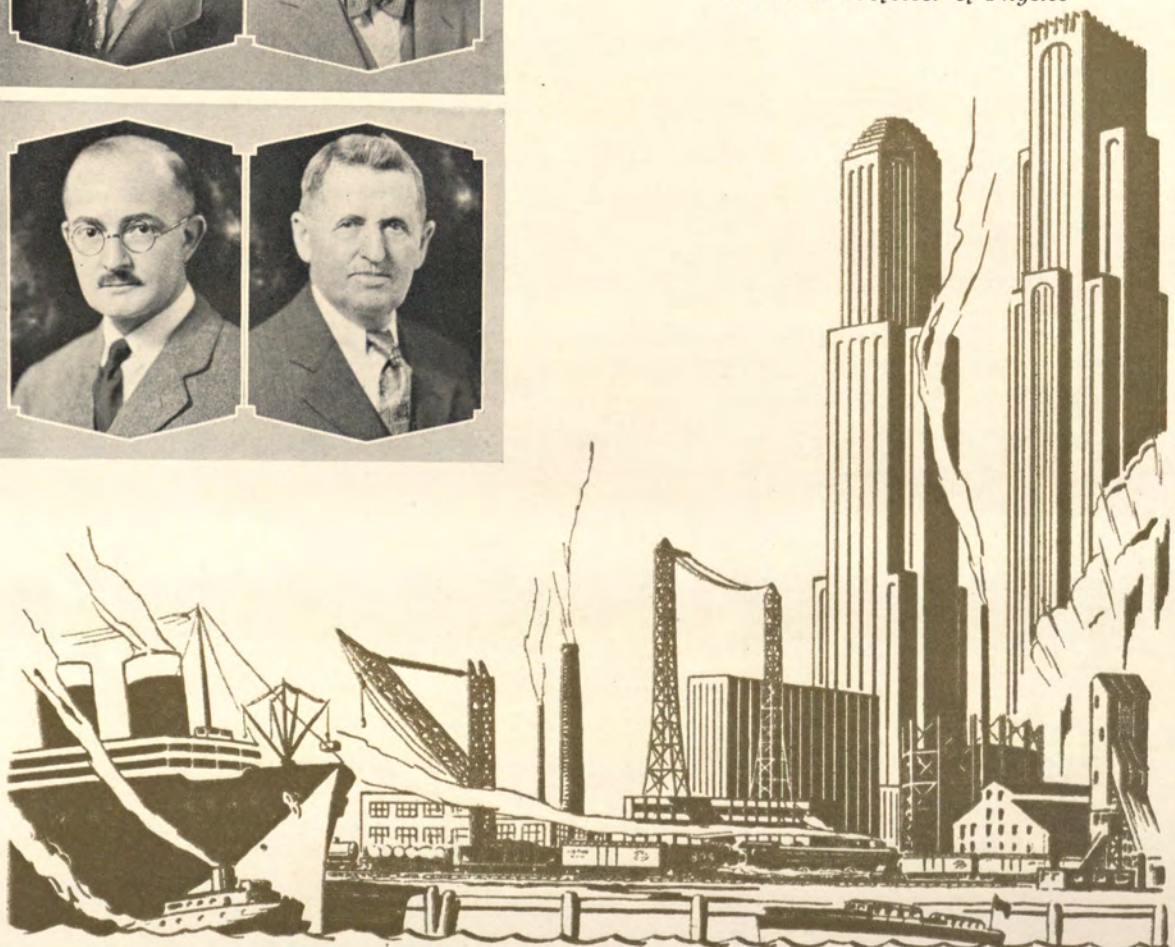
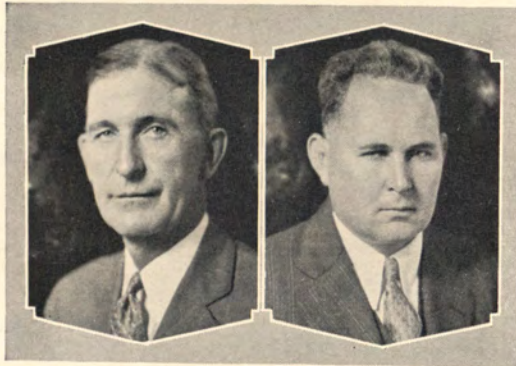
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Associate Professor of Electrical Engineering

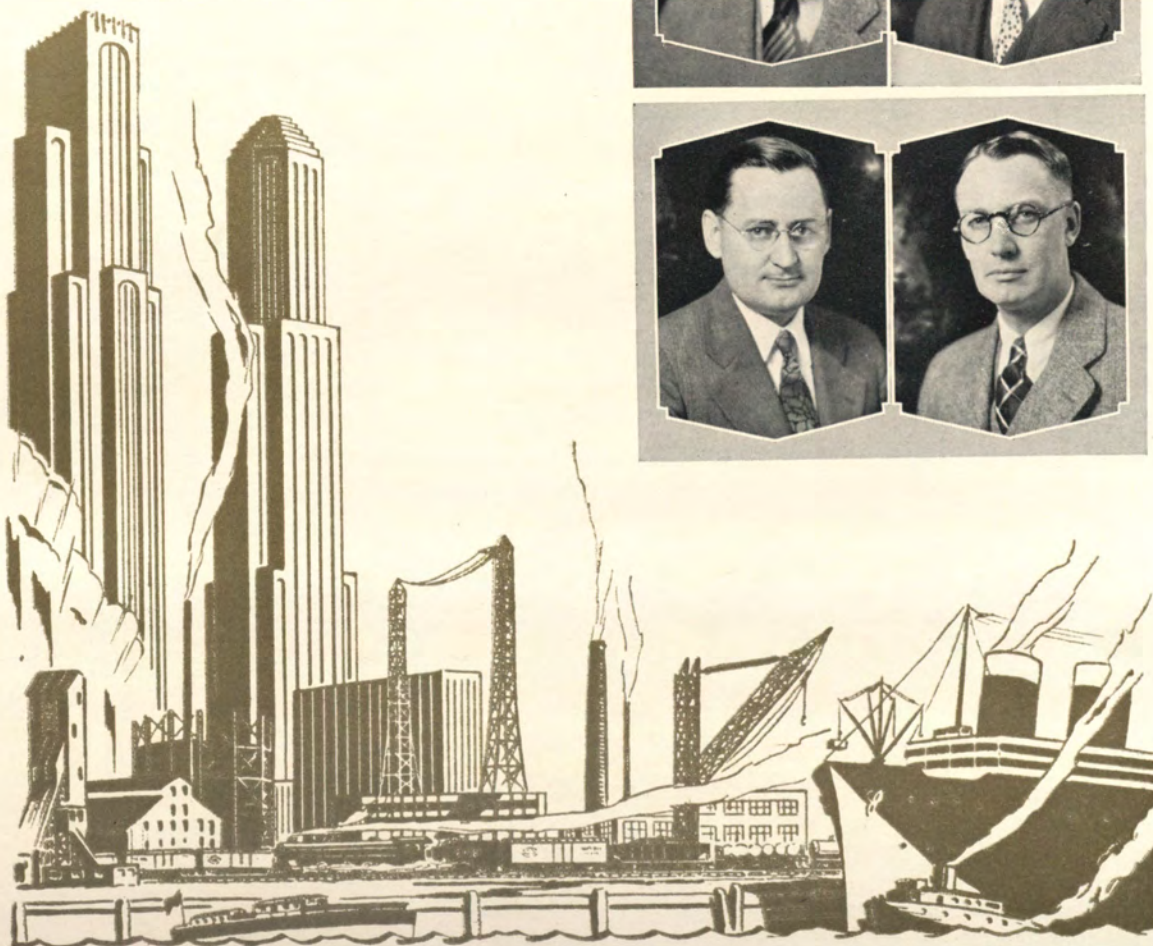
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Assistant Professor of English



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*Assistant Professor of Engineering,
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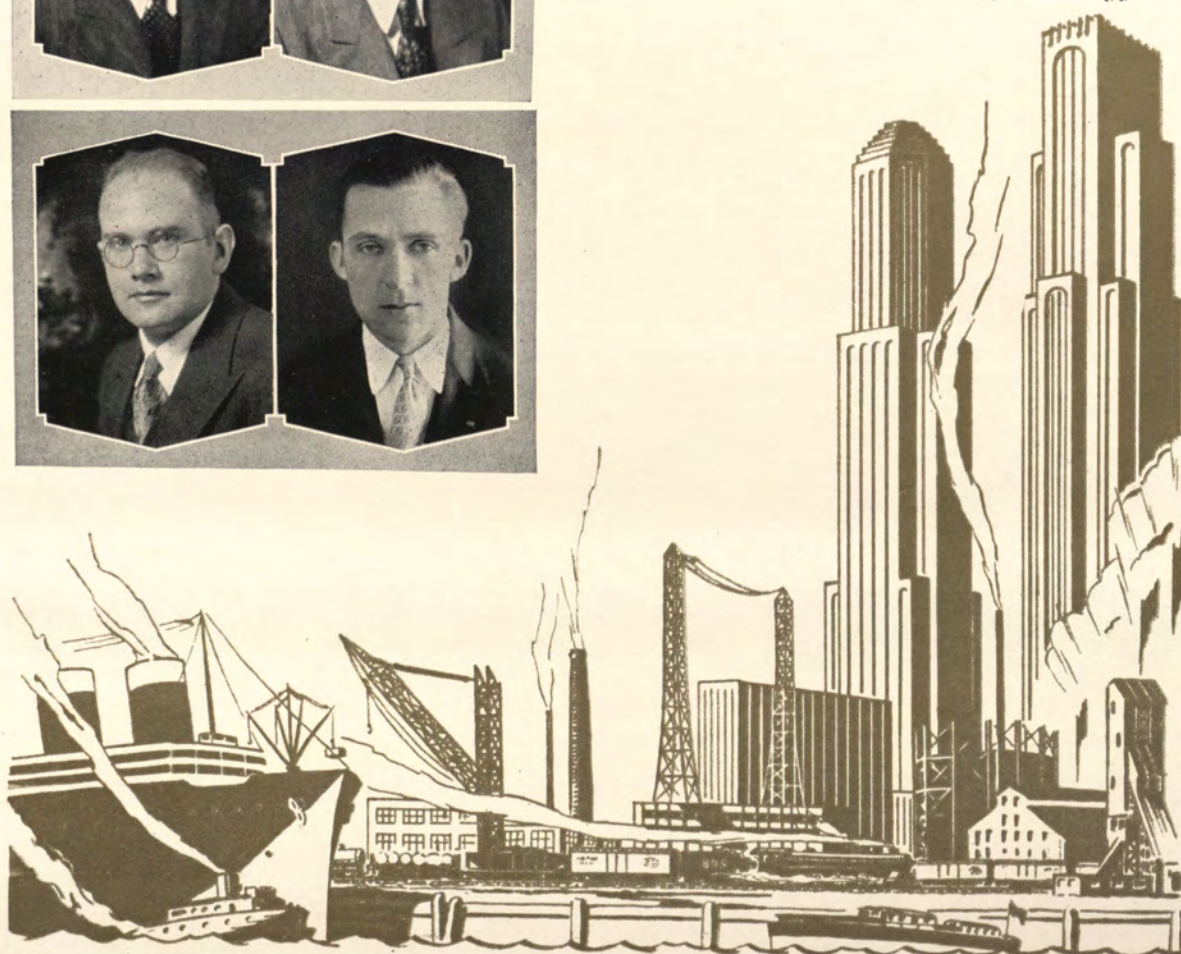
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*Assistant Professor of Ceramic
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Assistant Professor of Metallurgy



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Instructor in Mathematics

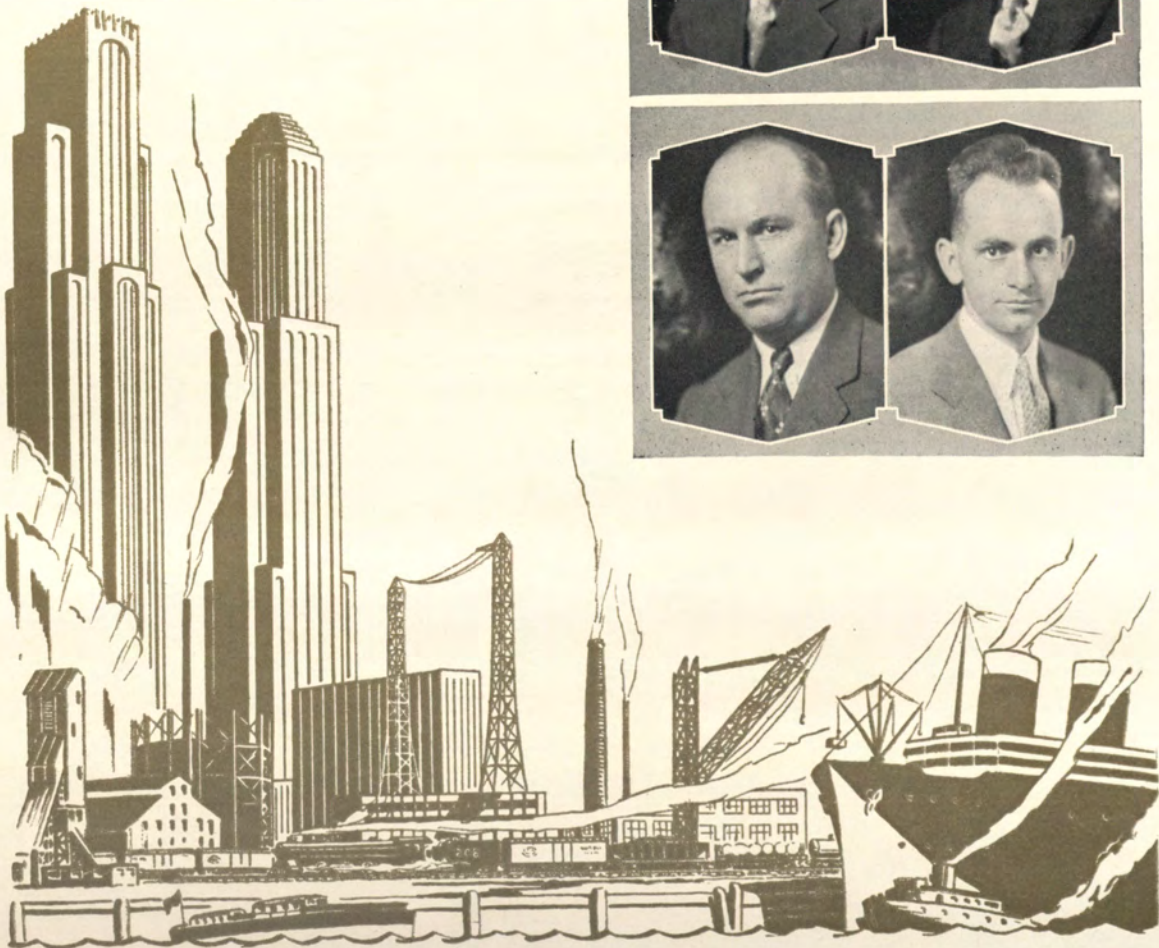
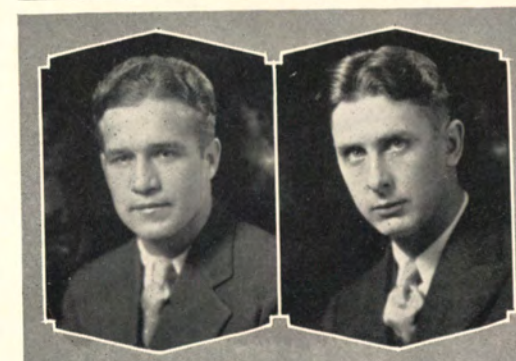
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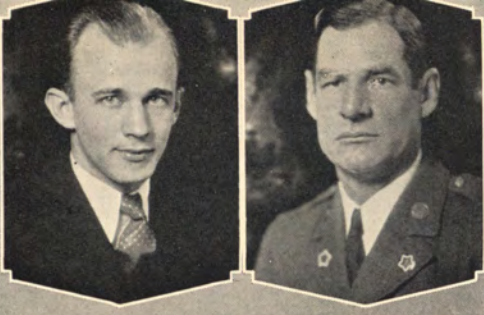
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Assistant Registrar

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*Instructor in Military Science and
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*Assistant Professor Mechanical
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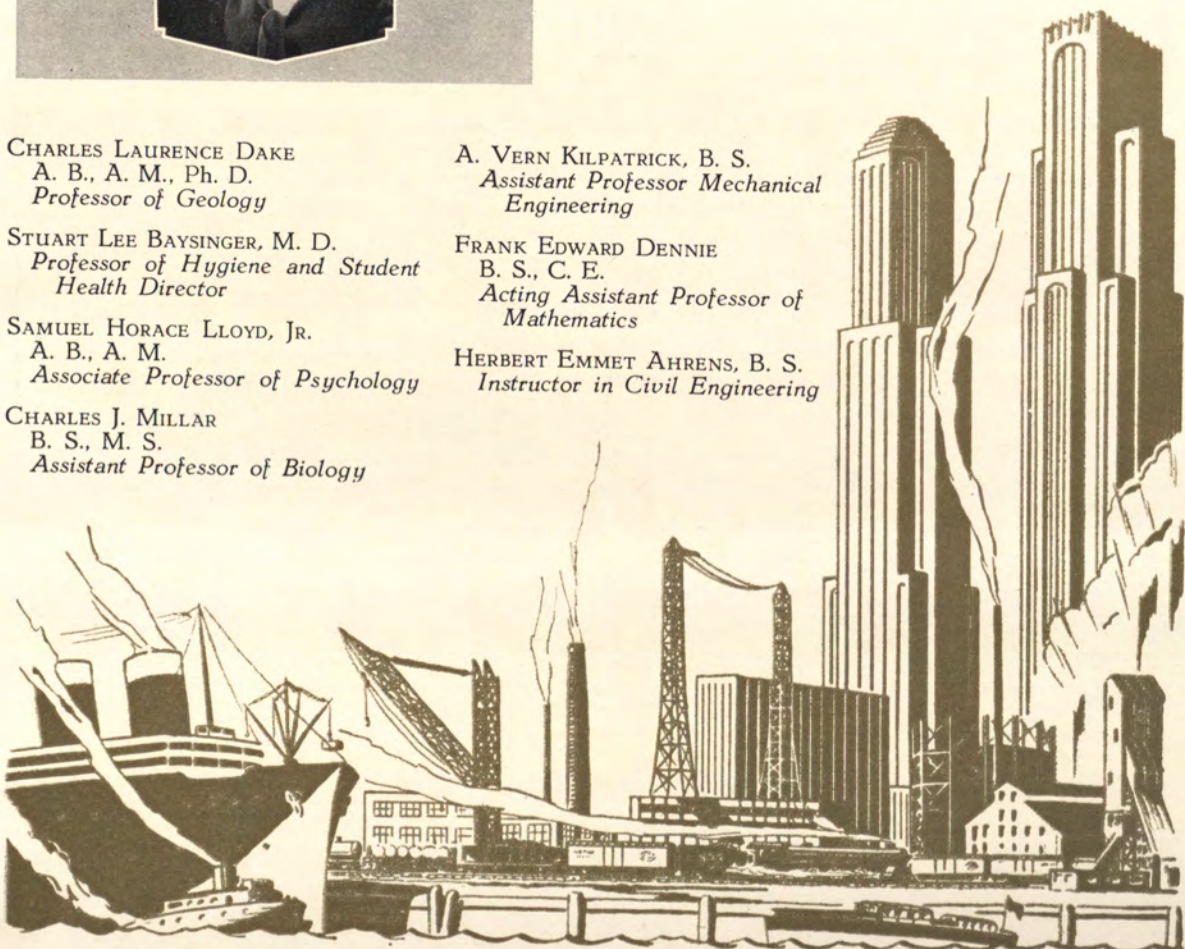
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*Professor of Hygiene and Student
Health Director*

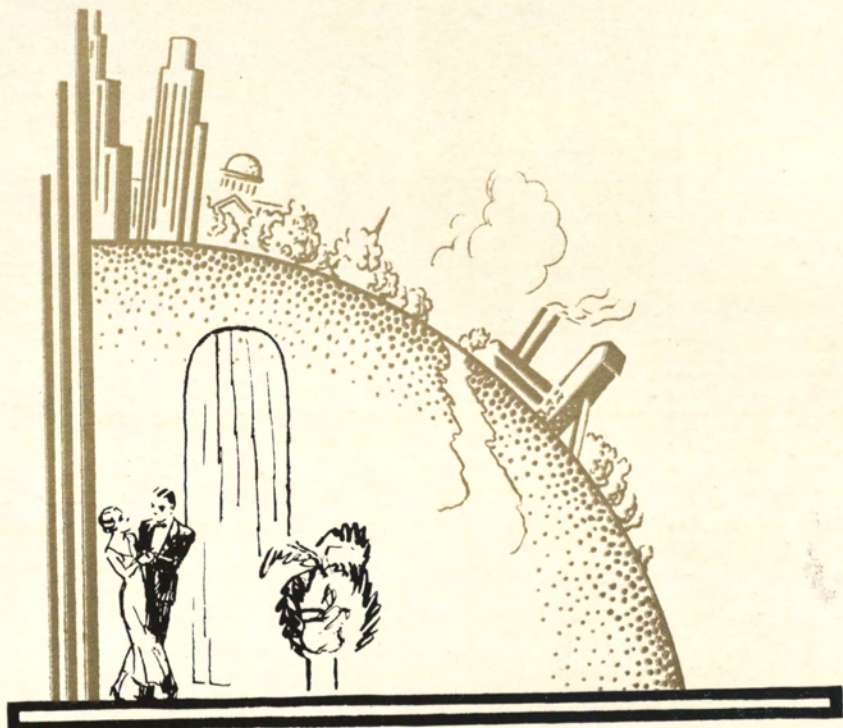
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B. S., M. S.
Assistant Professor of Biology

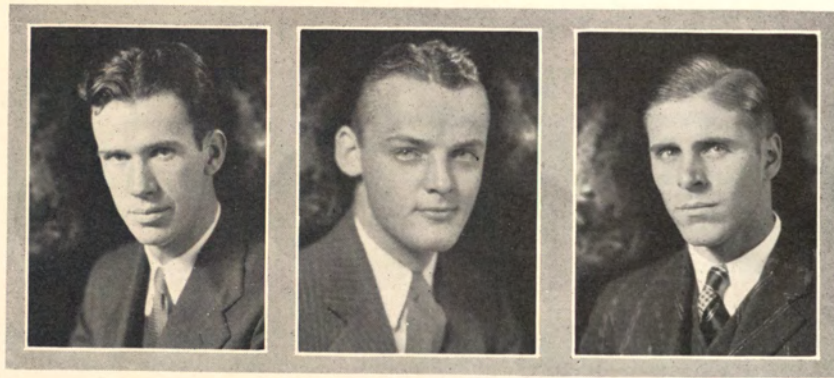




SENIORS

CLASS
OF 1933





WILLIAM E. BATES
Sikeston, Mo.
Sigma Nu
Civil Engineering

COLEMAN HENRY BEARDSLEY
Kankakee, Ill.
Prospector, Pres. Athletic Assn.
Civil Engineering

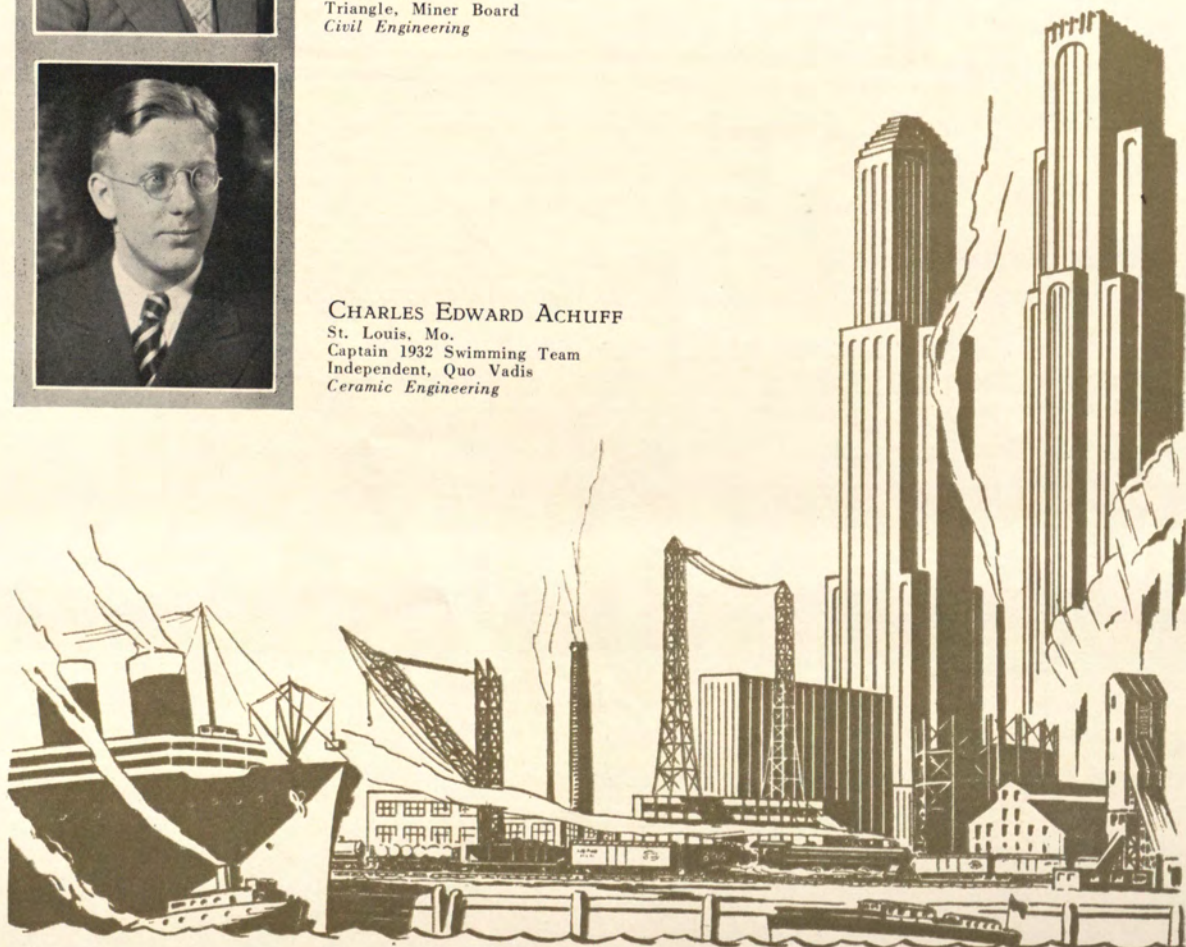
JUSTUS JORDAN BEINLICH
St. Louis, Mo.
Independent
Ceramic Engineering

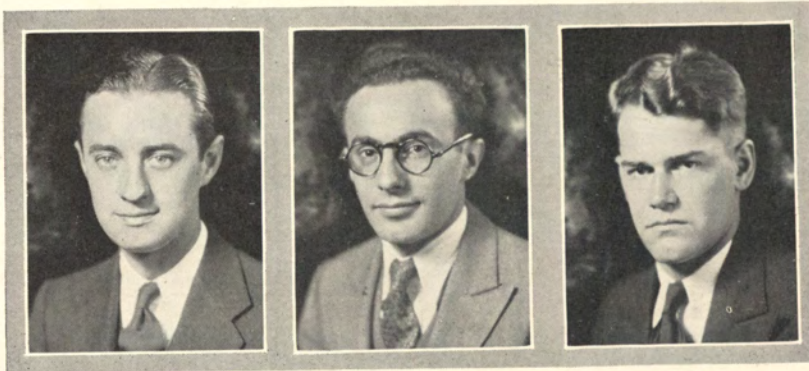


VERNON LOMAS ASHER
Rolla, Mo.
Triangle, Miner Board
Civil Engineering



CHARLES EDWARD ACHUFF
St. Louis, Mo.
Captain 1932 Swimming Team
Independent, Quo Vadis
Ceramic Engineering





RAYMOND WILLIAM BORCHERS
Sedalia, Mo.
Independent
Electrical Engineering

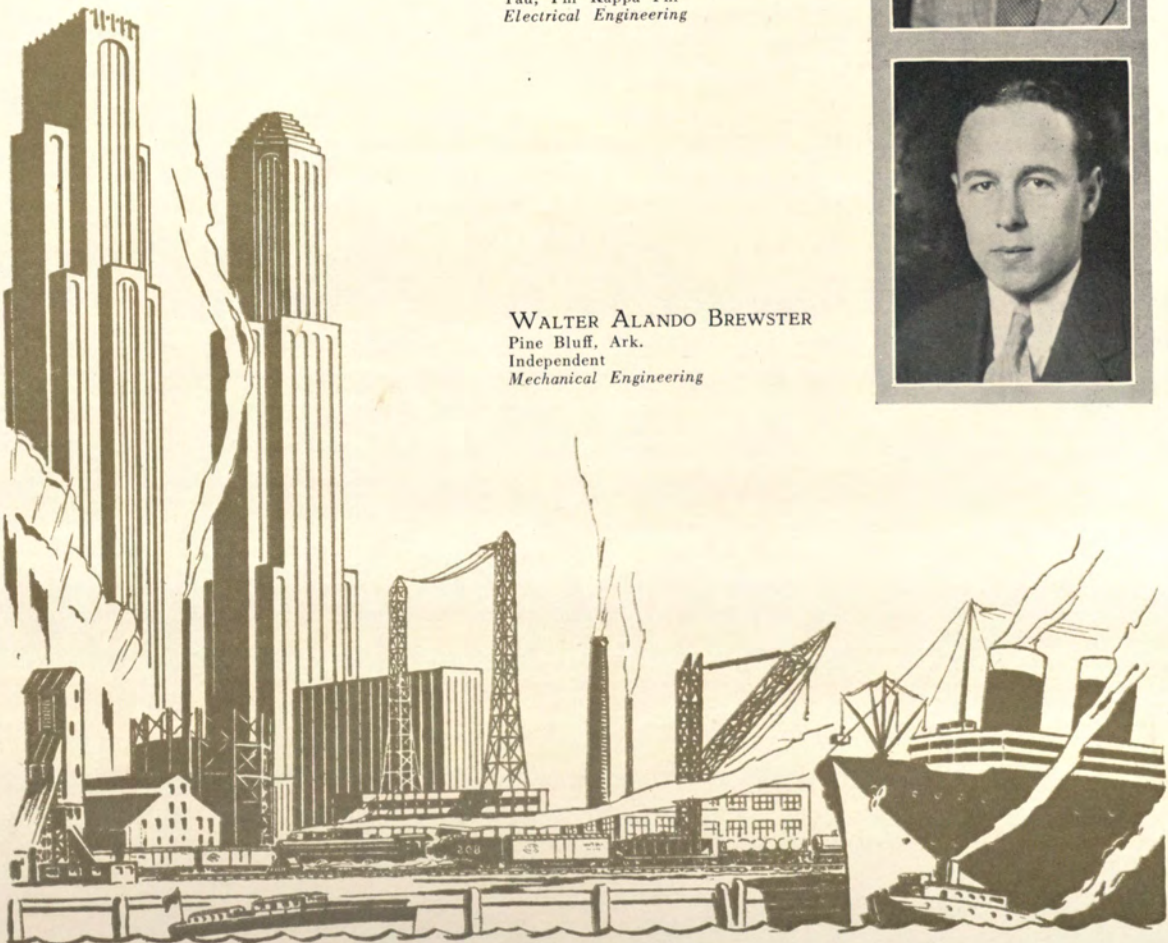
HENRY BIERMAN
Chicago, Ill.
Independent
Metal Mining

CLARENCE FREDRICK BERTHOLD
Kirkwood, Mo.
Independent
Metal Mining

RAYMOND LOUIS BRAEUTIGAM
Belleville, Ill.
Lambda Chi Alpha, Tau Beta Pi, Theta
Tau, Phi Kappa Phi
Electrical Engineering



WALTER ALANDO BREWSTER
Pine Bluff, Ark.
Independent
Mechanical Engineering





VERNON OSCAR BURKHALTER
Jefferson City, Mo.
Independent, Quo Vadis, Tau Beta Pi,
Satyr
Metallurgy

F. A. CLICK
Springfield, Mo.
Mercier
Mechanical Engineering

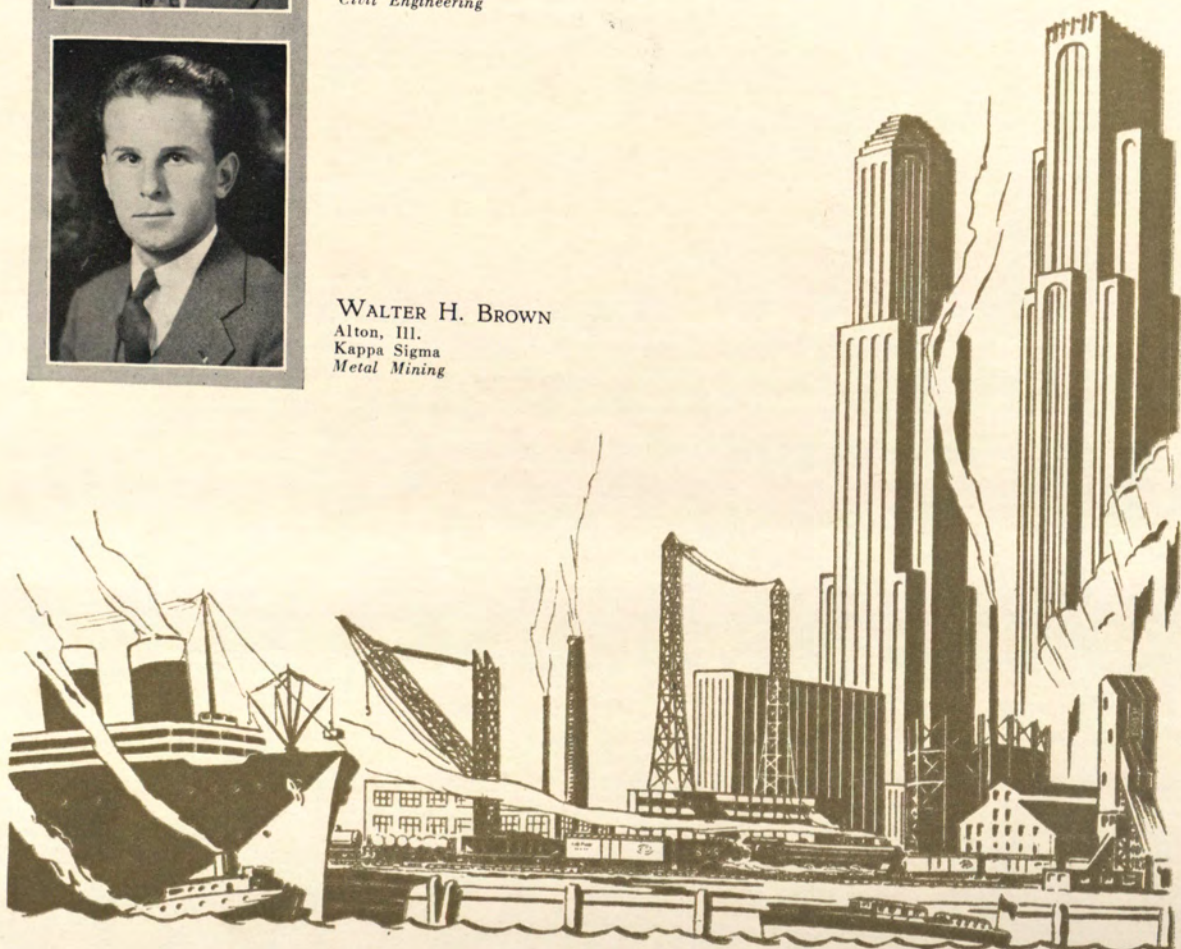
WILLIAM WALLER COGHILL
Rolla, Mo.
Sigma Nu, Tau Beta Pi, A. I. M. M. E.
Metallurgy



WILLIAM ANDREW BROWN
Rolla, Mo.
Independent
Civil Engineering



WALTER H. BROWN
Alton, Ill.
Kappa Sigma
Metal Mining





WARWICK LEWIS DOLL

Kansas City, Mo.
Independent
Civil Engineering

VIRGIL IVAN DODSON

Greene, N. Y.
Independent, Phi Kappa Phi
Civil Engineering

THOMAS VINCENT CUMMINS

Minot, N. D.
Independent
Civil Engineering

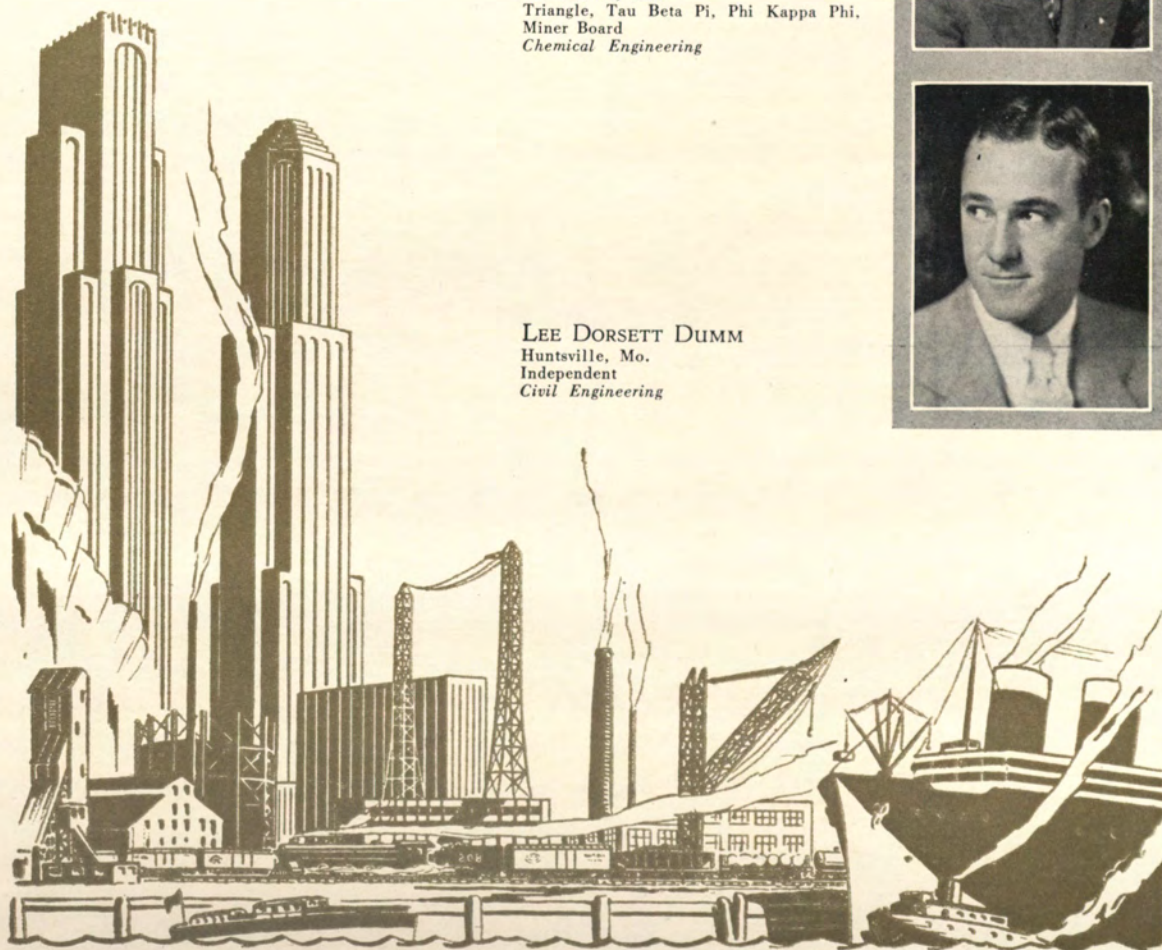
THORPE DRESSER

St. Francis, Mo.
Triangle, Tau Beta Pi, Phi Kappa Phi,
Miner Board
Chemical Engineering



LEE DORSETT DUMM

Huntsville, Mo.
Independent
Civil Engineering





E. M. EVERETT

Pacific, Mo.
Independent
Civil Engineering

JOHN OSCAR FARMER

Willard, Mo.
Independent, Quo Vadis
Petroleum Engineering

FELIX FRAULINI

Bevier, Mo.
Independent
Ceramic Engineering



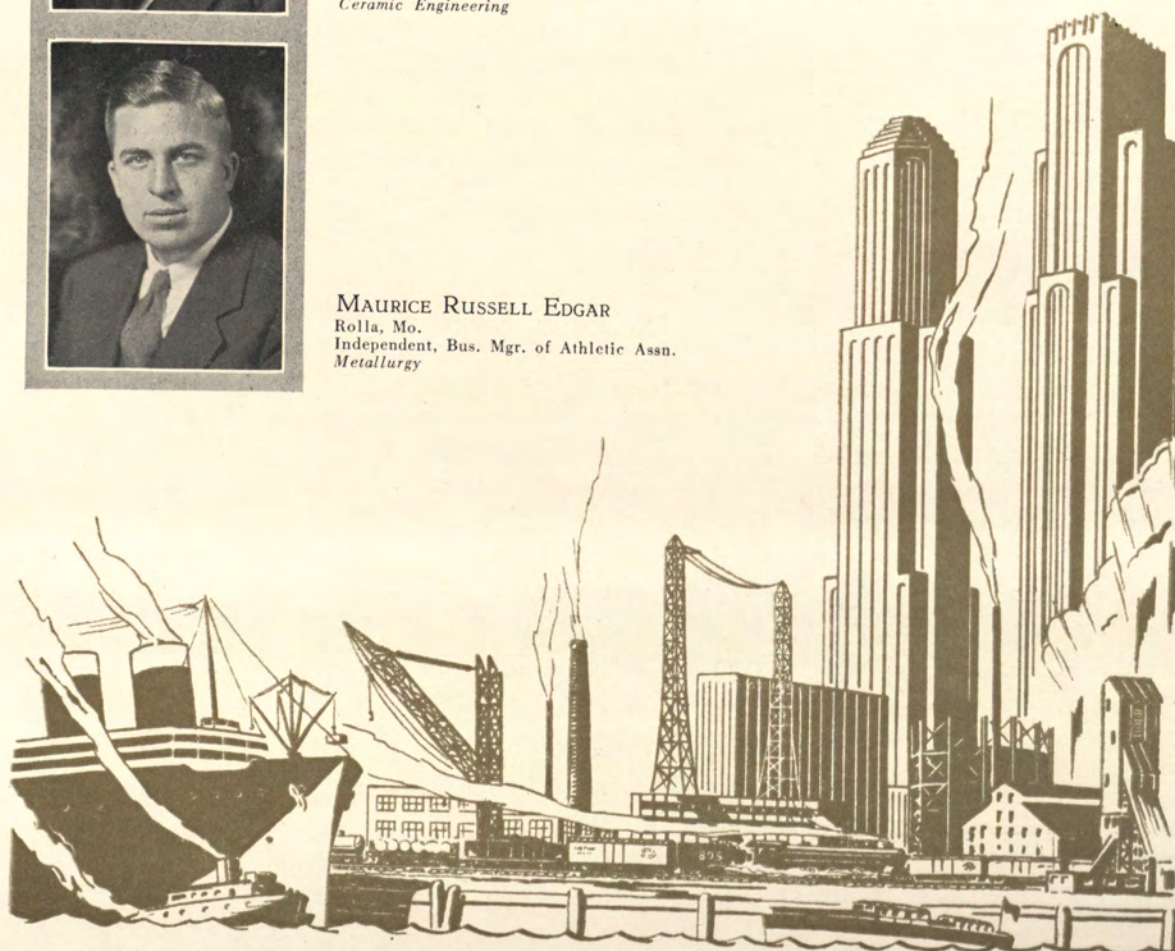
KENNETH EMERSON EVANS

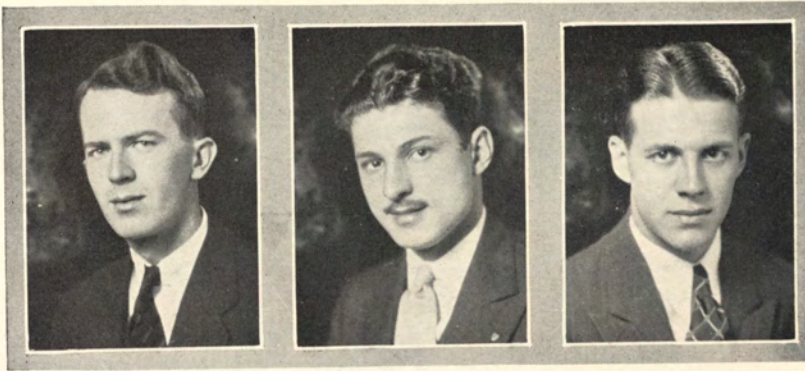
Mexico, Mo.
Independent, Quo Vadis, Mo. Miner
Ceramic Engineering



MAURICE RUSSELL EDGAR

Rolla, Mo.
Independent, Bus. Mgr. of Athletic Assn.
Metallurgy





ELMER WILLIAM GIESEKE
Concordia, Mo.
Independent, Tau Beta Pi
Metallurgy

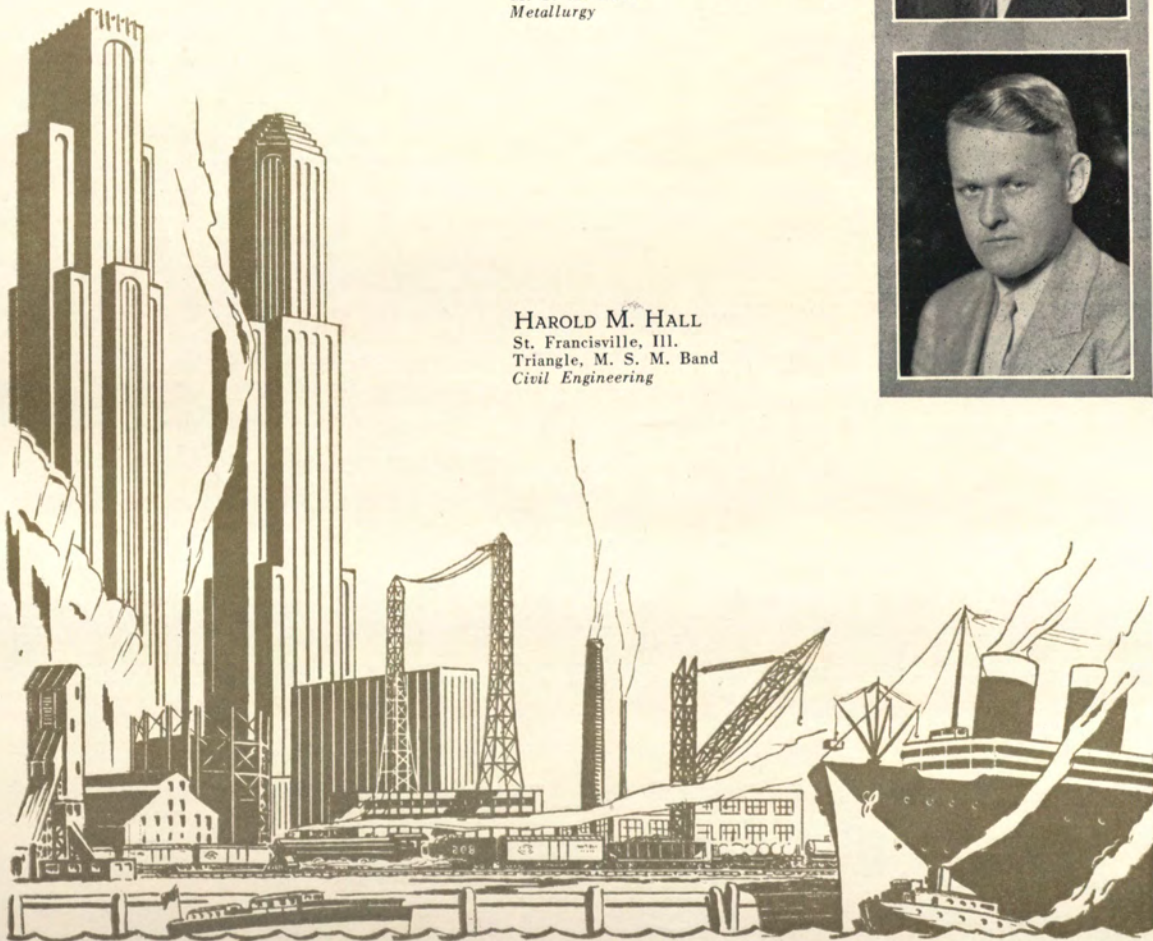
ODEN CASS GARST
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Independent, Phi Kappa Phi, Theta Tau
Chemical Engineering

WENDELL FRANCIS GADDIS
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Independent
Metallurgy

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Council, St. Pat's Board, Senior Council,
M. S. M. Band
Metallurgy



HAROLD M. HALL
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Triangle, M. S. M. Band
Civil Engineering





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Independent
Metal Mining

MILTON LAWRENCE HERZOG
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Independent
Chemical Engineering

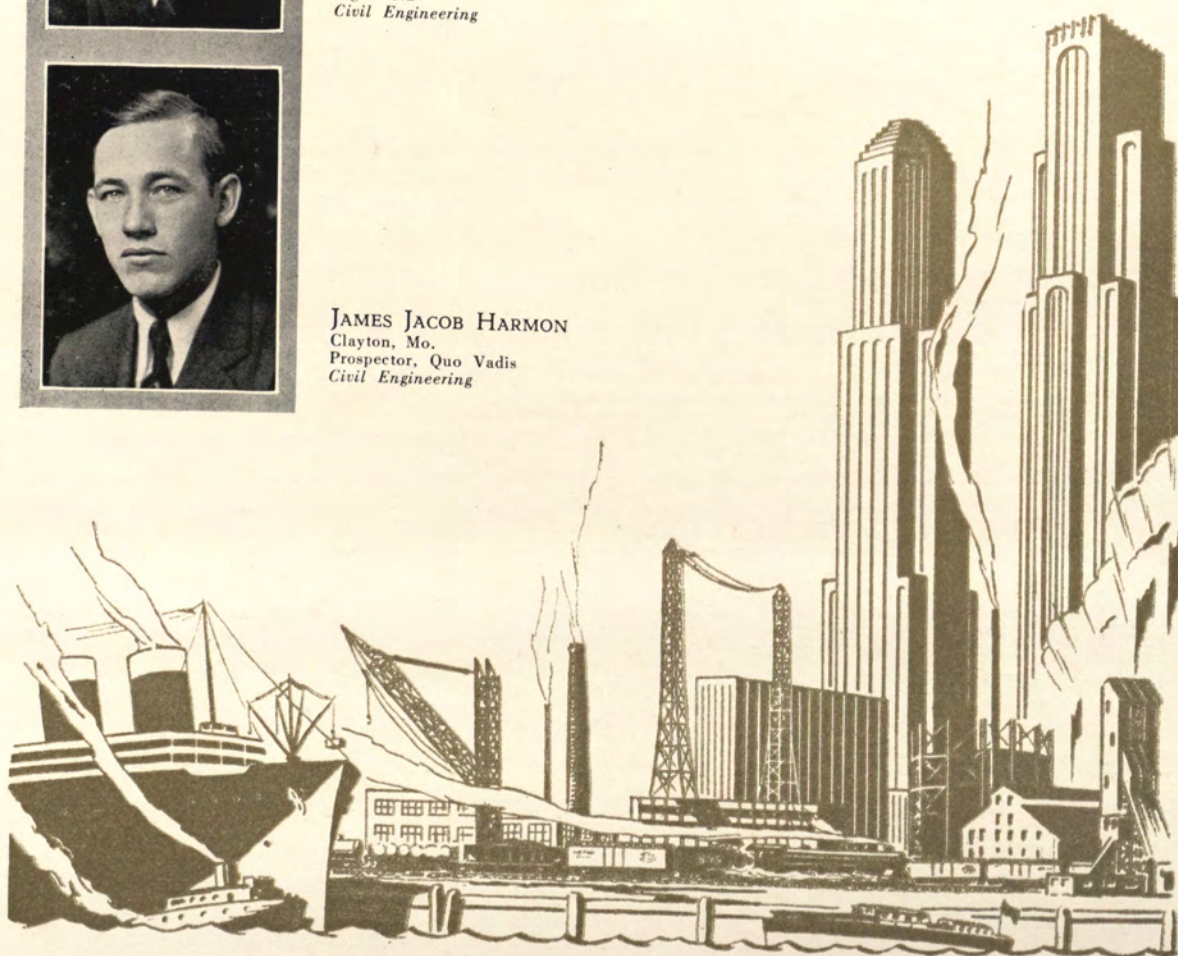
ALFRED HENRY HESSE
Webster Groves, Mo.
Mercier, Theta Tau, Rollamo Board
Metallurgy



GENE LEWIS HARRIS
Joplin, Mo.
Sigma Nu
Civil Engineering



JAMES JACOB HARMON
Clayton, Mo.
Prospector, Quo Vadis
Civil Engineering





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Tulsa, Okla.
Sigma Nu, Miner Board
Mechanical Engineering

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Kappa Sigma
Metal Mining

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Independent
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Civil Engineering



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Independent, St. Pat's Board, Senior
Council, Theta Tau, A. S. C. E.
Civil Engineering





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Steubenville, Ohio
Pi Kappa Alpha, A. I. E. E.
Electrical Engineering

THEODORE B. KACZMAREK
Chicago, Ill.
Independent
Metallurgy

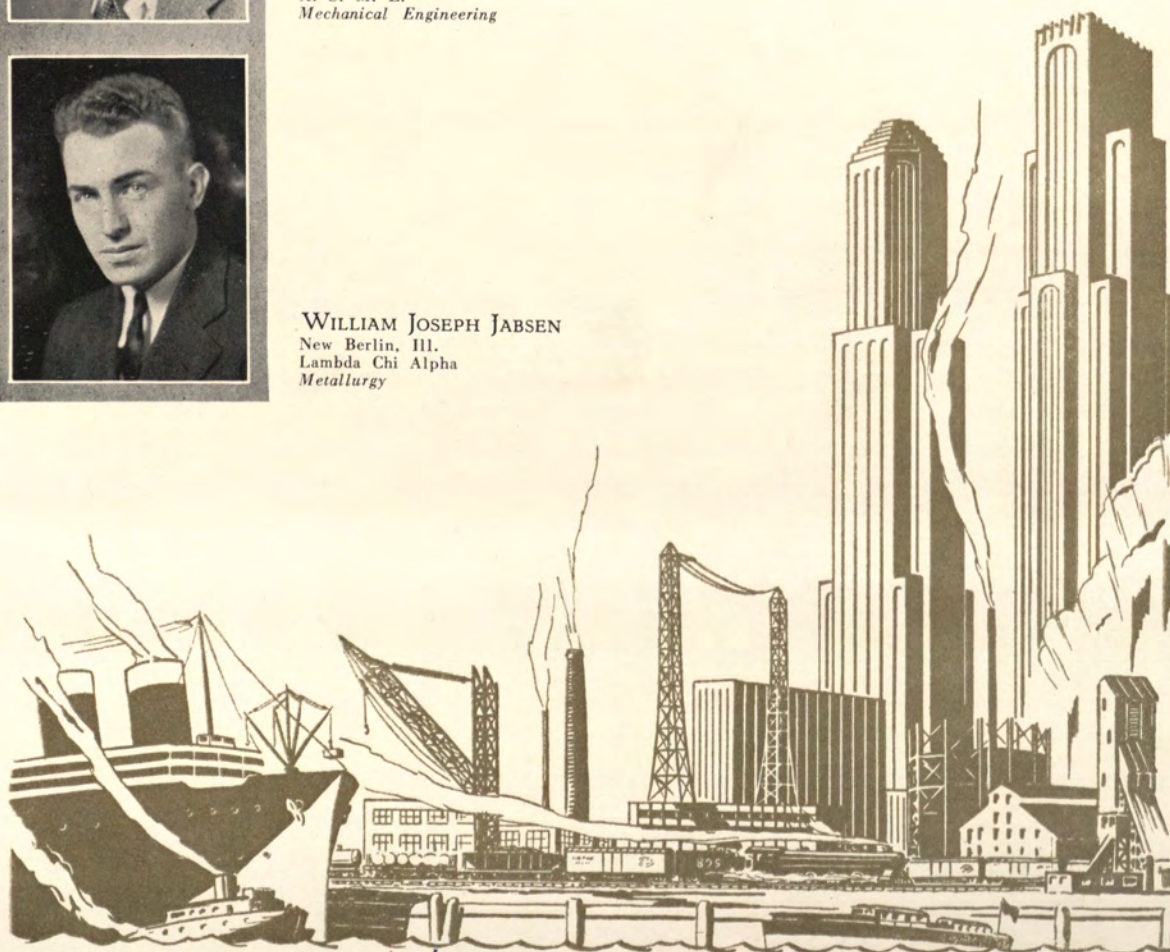
WILLIAM WOODHOUSE KAY
Eric, Pa.
Prospector, Quo Vadis, Tau Beta Pi,
Rollamo Board, Editor 1933 Rollamo,
Captain 1933 Swimming Team
Metal Mining



ALVIN JULIUS JONES
Jamestown, N. Y.
Prospector, Satyr, Rollamo Board,
A. S. M. E.
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Lambda Chi Alpha
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General Science

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Independent, Theta Tau
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WILLIAM KOOPMAN
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Civil Engineering



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Mercier, Satyr
Mining Geology





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Mechanical Engineering

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Concordia, Mo.
Independent, Tau Beta Pi, Phi Kappa Phi
Metallurgy

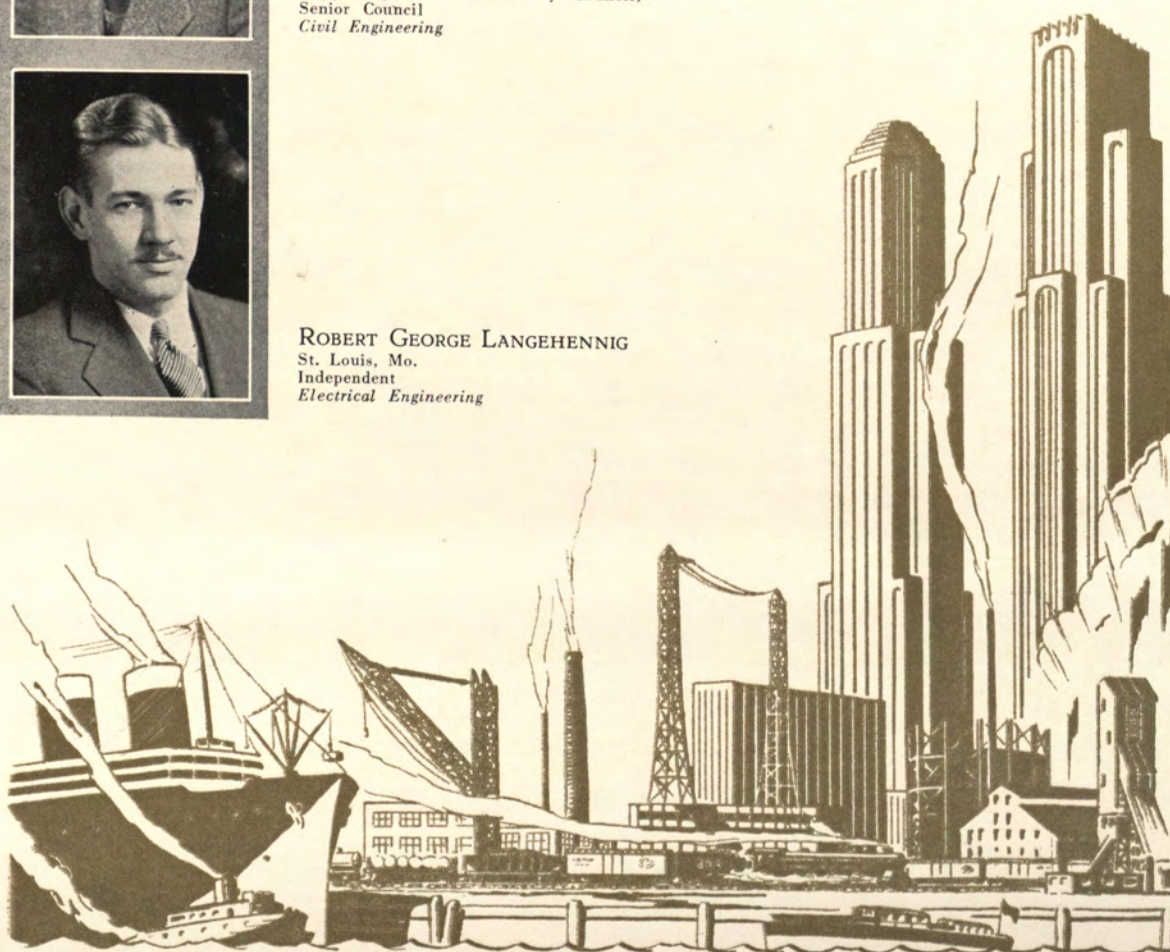
ROBERT ROGERS LEVY
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Independent, Football, Senior Council
Mechanical Engineering

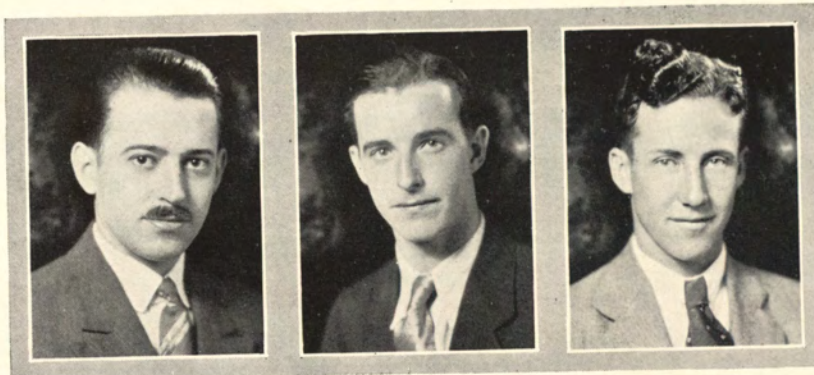


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Kappa Sigma, Inter-Fraternity Council,
Senior Council
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Independent
Electrical Engineering





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Independent
Electrical Engineering

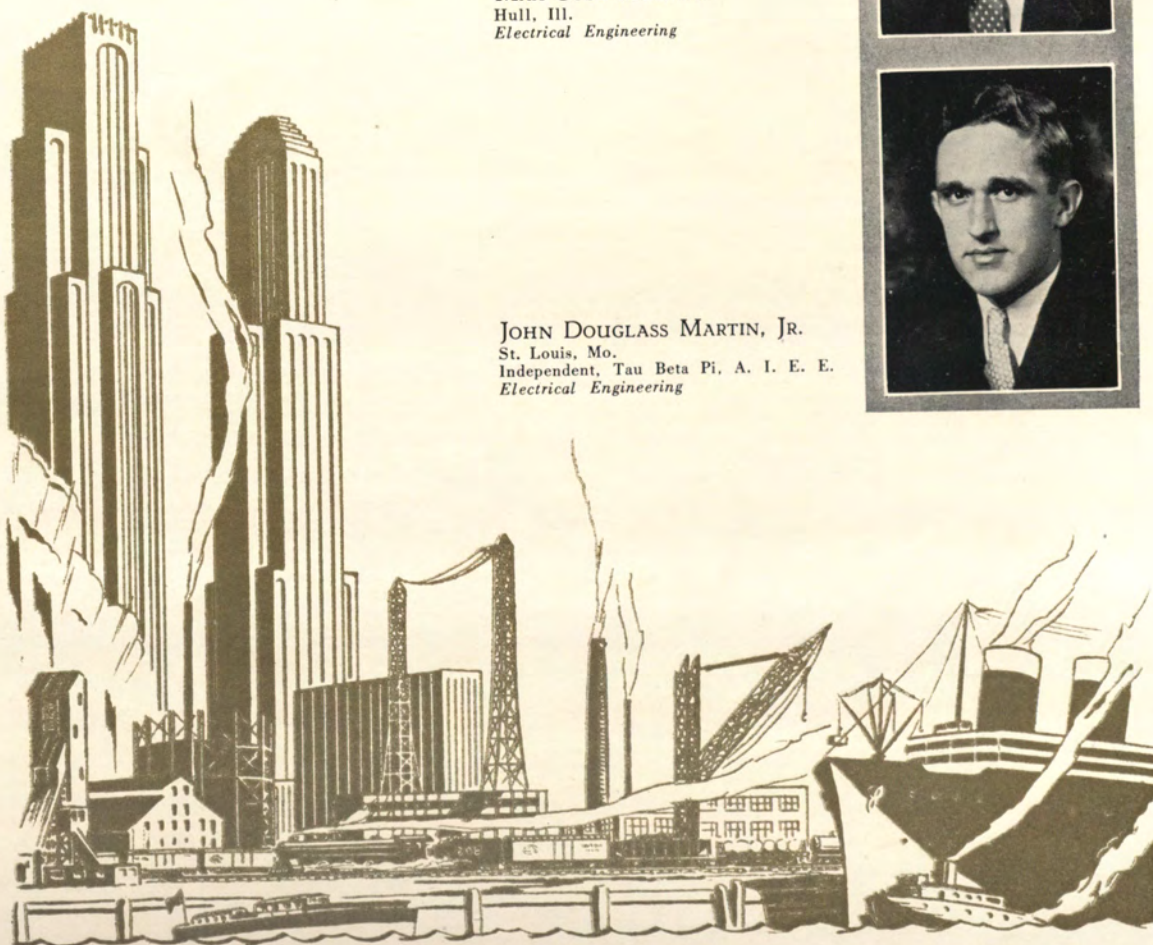
FRANCIS JAMES LOUNEY
Vandalia, Mo.
Mercier
Ceramic Engineering

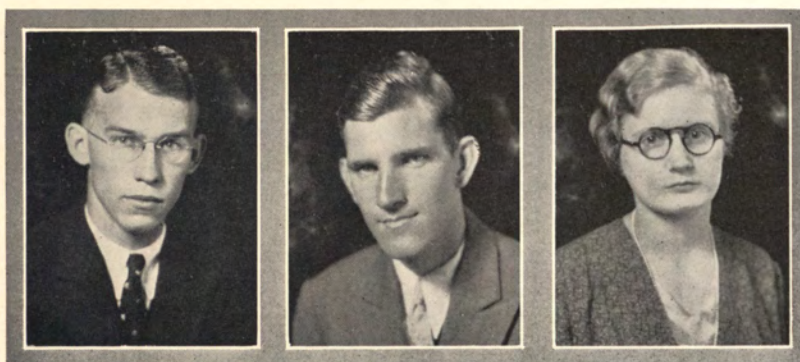
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Newburg, Mo.
Independent
General Science

MAX GOSE McCrory
Hull, Ill.
Electrical Engineering



JOHN DOUGLASS MARTIN, JR.
St. Louis, Mo.
Independent, Tau Beta Pi, A. I. E. E.
Electrical Engineering





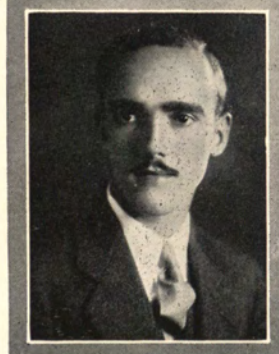
GEORGE HANLEY MUSSON
 Kansas City, Mo.
 Independent, Senior Council, Tau Beta
 Pi, Phi Kappa Phi, Mo. Miner Board
Metallurgy

HARVEY LEE NICHOLSON
 St. Louis, Mo.
 Prospectors, Satyrs, St. Pat's Board
Metallurgy

MABEL EDNA PHILLIPS
 Rolla, Mo.
 Phi Kappa Phi
General Science

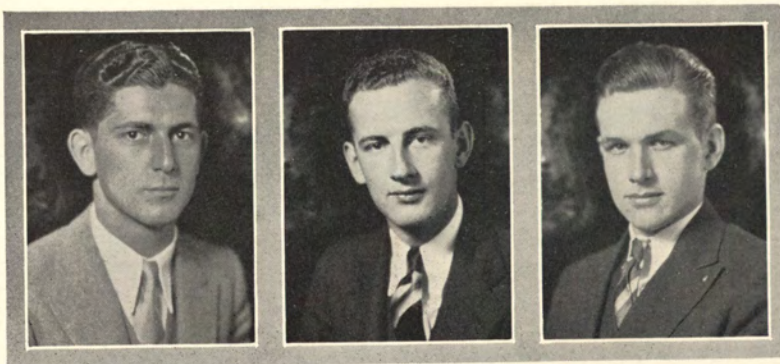


JOHN CHARLES MESSERSMITH
 Tuscumbia, Mo.
 Independent, Rollamo Board of Control,
 Senior Council
Mining



EARL RICHARD MERTZ
 Clayton, Mo.
 Independent, Tau Beta Pi, Phi Kappa Phi
Metallurgy





PAUL BERNARD PROUGH
Kirkwood, Mo.
Triangle, Inter-Fraternity Council, Senior
Council, Mo. Miner
Mechanical Engineering

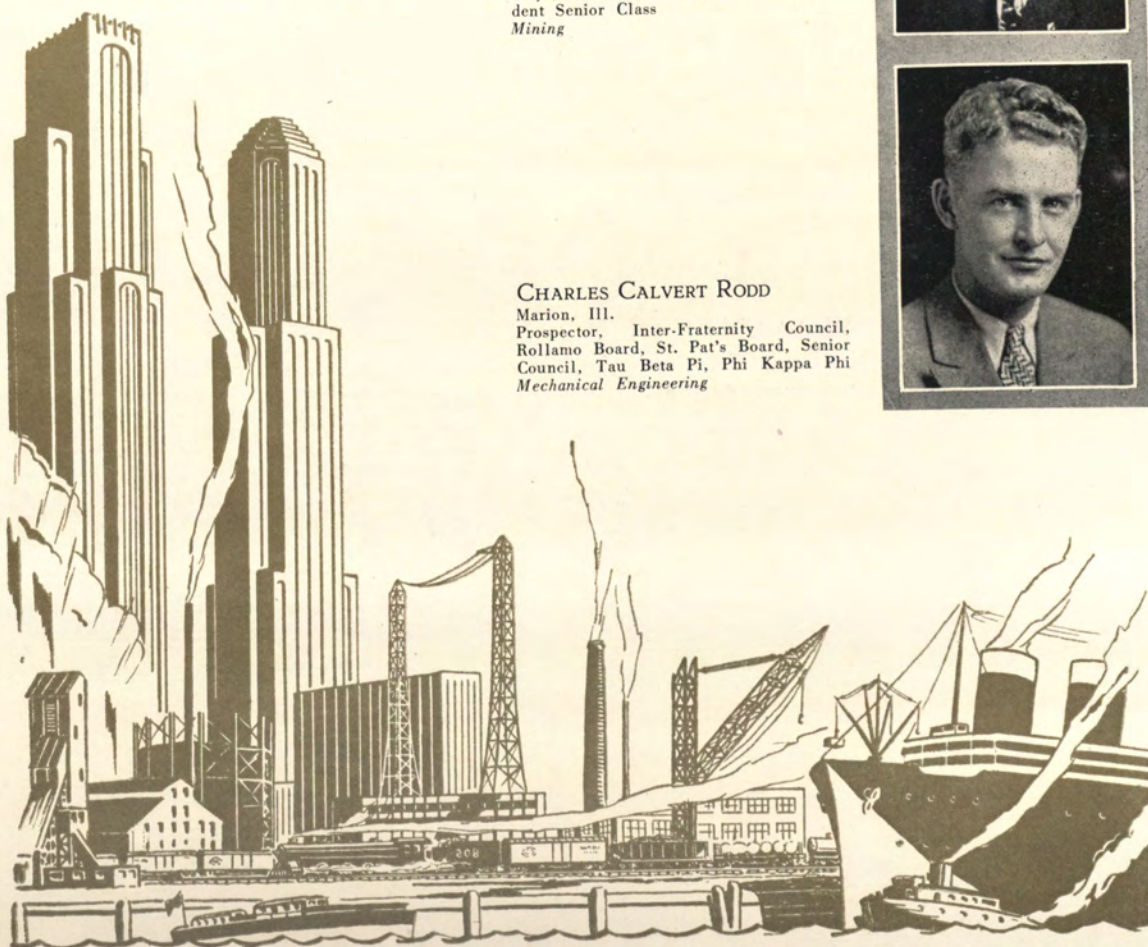
REX EARL PINKLEY
Crane, Mo.
Pi Kappa Alpha, Inter-Fraternity Council,
St. Pat's Board, Senior Council
Civil Engineering

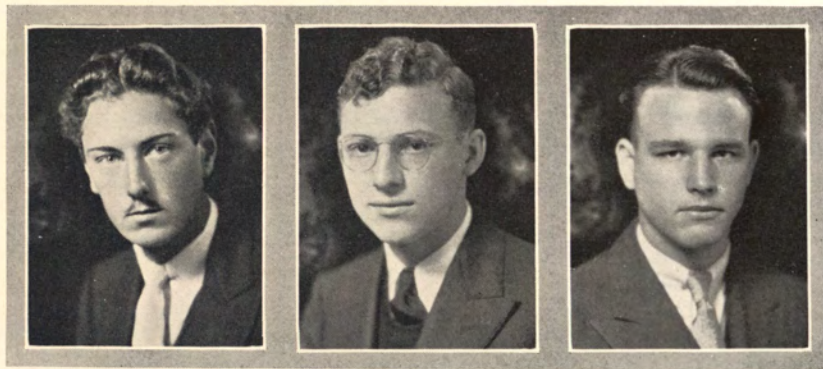
JOSEPH JOHN PICCO
St. Louis, Mo.
Independent, Tau Beta Pi, Phi Kappa Phi
Metallurgy

RALPH WAKEFIELD RICHMOND
Rolla, Mo.
Independent, Tau Beta Pi, Theta Tau,
Satyr, Football, Senior Council, Presi-
dent Senior Class
Mining



CHARLES CALVERT RODD
Marion, Ill.
Prospector, Inter-Fraternity Council,
Rollamo Board, St. Pat's Board, Senior
Council, Tau Beta Pi, Phi Kappa Phi
Mechanical Engineering





CHARLES KENNETH ROSE

Moneta, Calif.
Independent, M. S. M. Band
Metal Mining

CHARLES RICHARD ROSENBAUM

Kansas City, Mo.
Independent, Rollamo-Miner Board of
Control, Senior Council
Ceramic Engineering

THURBER WHITE ROYER

St. Louis, Mo.
Independent, Senior Council, Glee Club,
M. S. M. Players, Rollamo-Miner Board
of Control
Mechanical Engineering

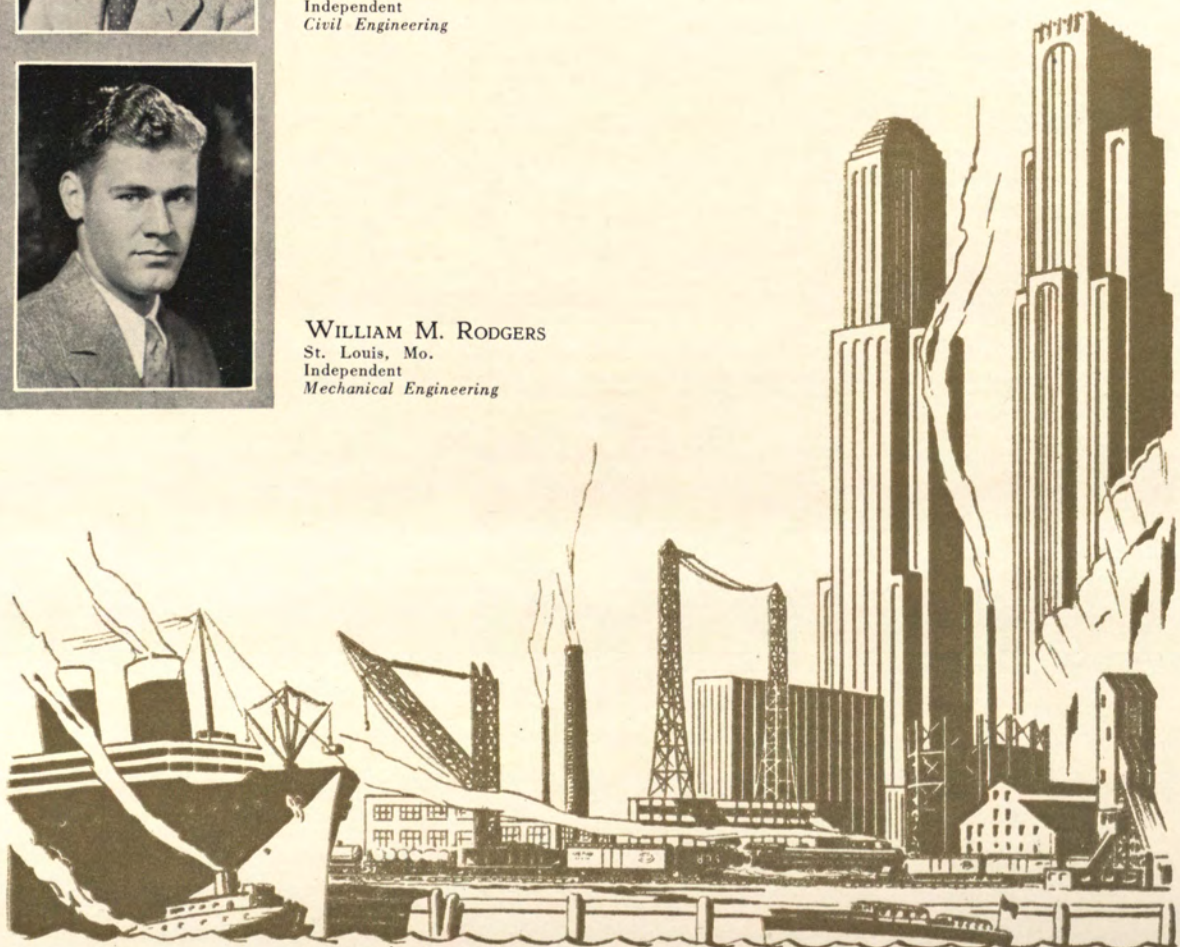
ELMER ALFRED ROEMER

Pacific, Mo.
Independent
Civil Engineering



WILLIAM M. RODGERS

St. Louis, Mo.
Independent
Mechanical Engineering





GEORGE NICHOLAS SCHWARTZ
St. Louis, Mo.
Independent, Senior Council
Chemical Engineering

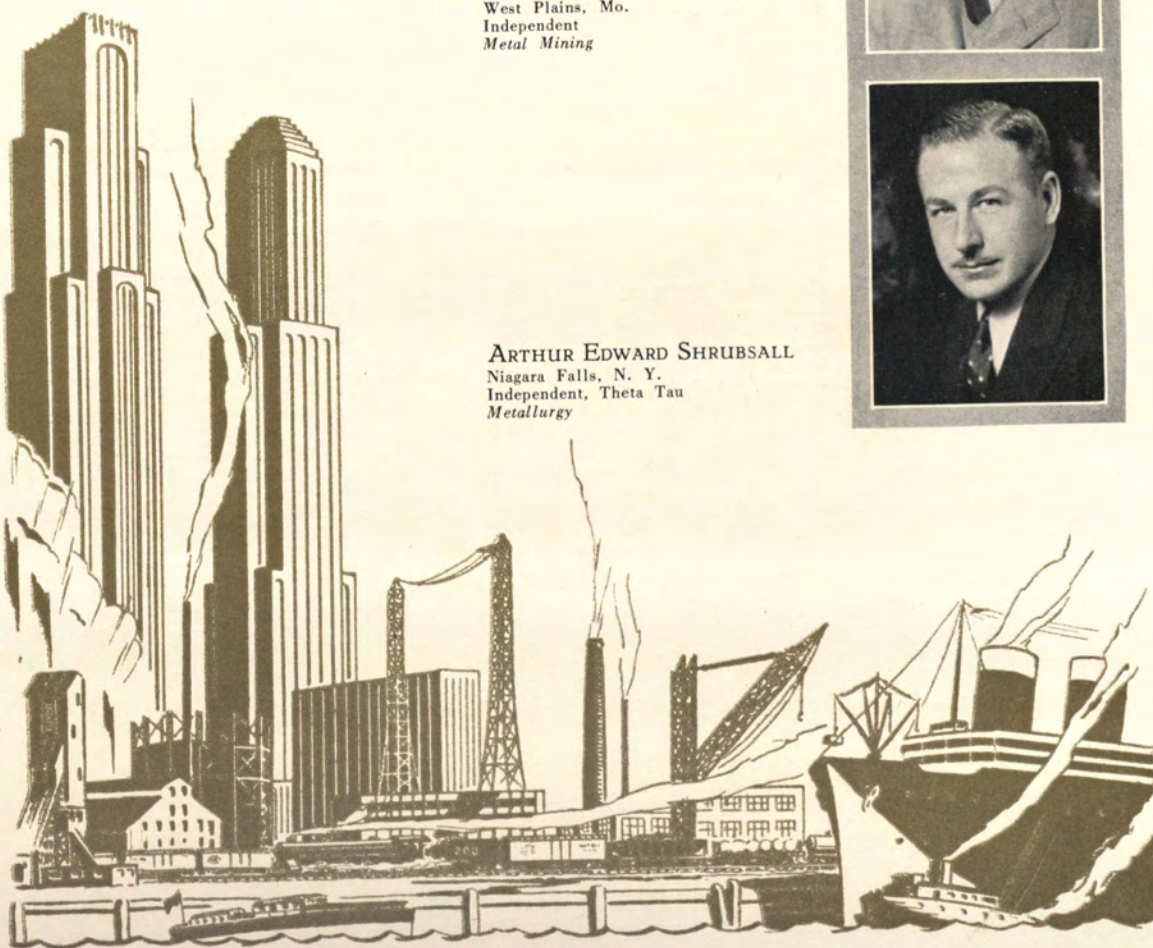
REINHARDT SCHUHMAN, JR.
Gunnison, Colo.
Independent, Tau Beta Pi, Theta Tau,
Phi Kappa Phi
Metallurgy

WILLIAM HENRY RUSSLER
Bushnell, Ill.
Independent
Metal Mining

THEODORE OWEN SEIBERLING
West Plains, Mo.
Independent
Metal Mining



ARTHUR EDWARD SHRUBSALL
Niagara Falls, N. Y.
Independent, Theta Tau
Metallurgy





IRVIN CAFIERO SPOTTI

Staunton, Ill.
Prospector, Quo Vadis, Football,
Treasurer Senior Class
Metallurgy

GEORGE PERRY STEEN

Springfield, Mo.
Triangle, Tau Beta Pi, Satyr, St. Pat's
Board, Phi Kappa Phi, Mo. Miner,
A. S. C. E.
Civil Engineering

MARNER EUGENE STEWART

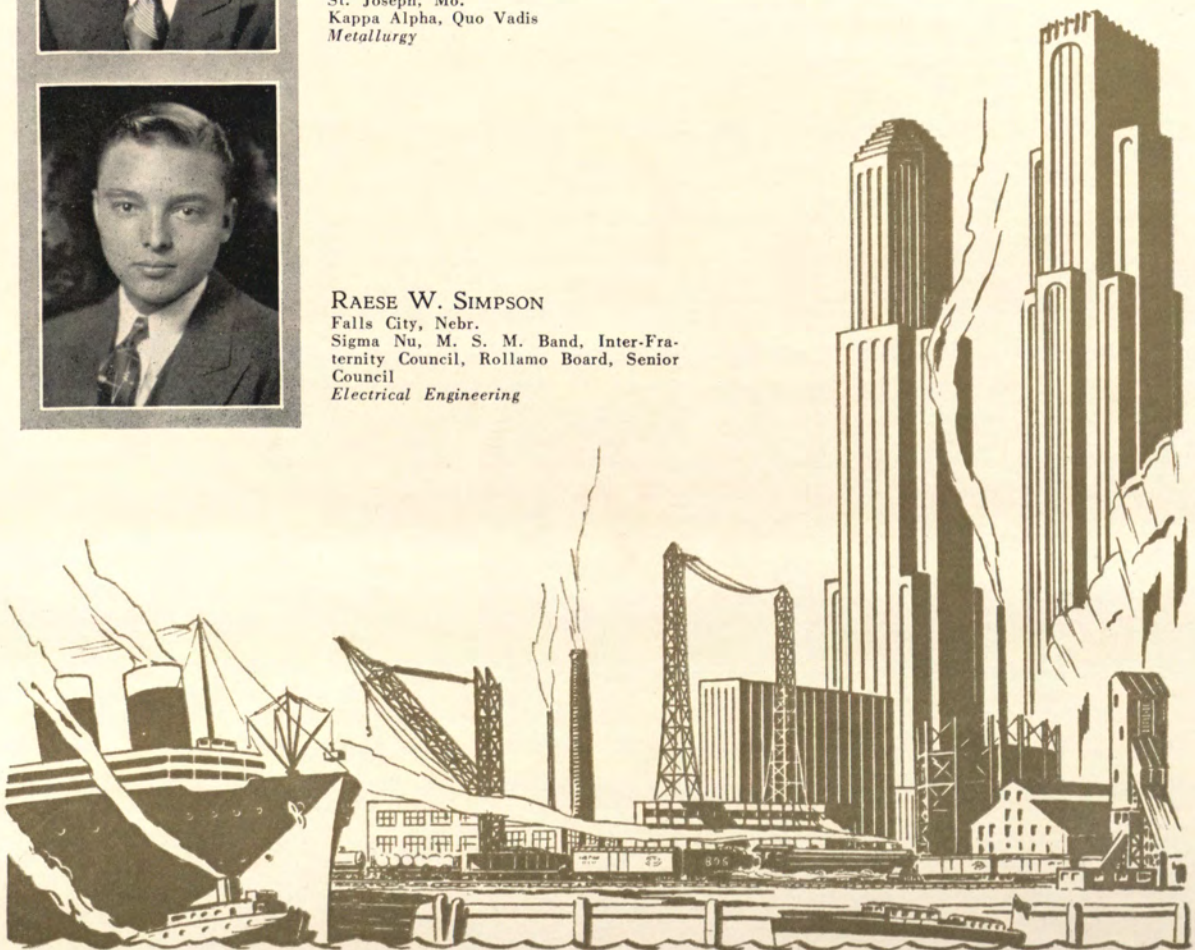
St. Louis, Mo.
Triangle, Secretary of Senior Class
Metallurgy

LEONARD CECIL SPIERS

St. Joseph, Mo.
Kappa Alpha, Quo Vadis
Metallurgy

RAESE W. SIMPSON

Falls City, Nebr.
Sigma Nu, M. S. M. Band, Inter-Fra-
ternity Council, Rollamo Board, Senior
Council
Electrical Engineering





ARTHUR PINTO TOWELL
St. James, Mo.
Independent, M. S. M. Band
Chemical Engineering

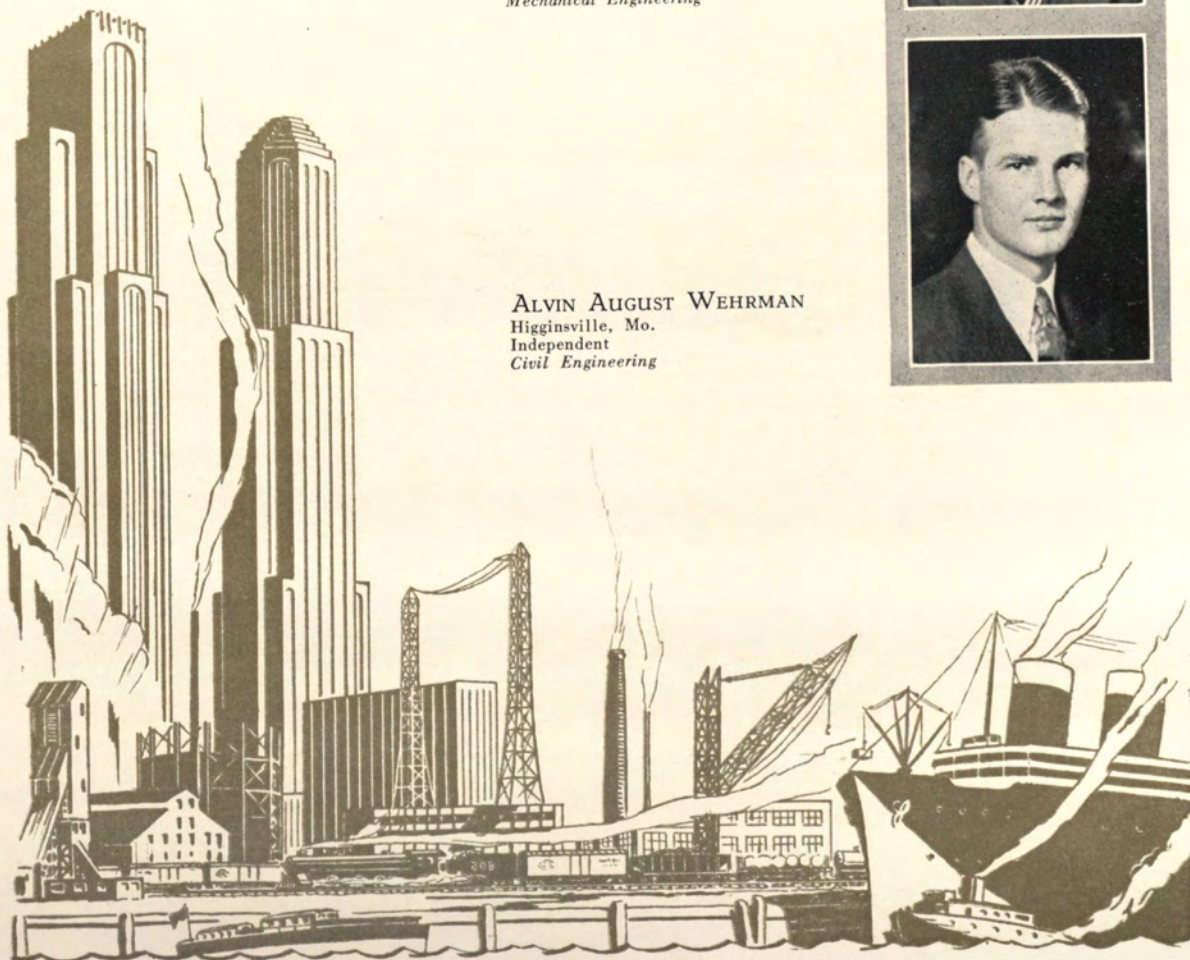
HERBERT EMIL THILENIUS
Cape Girardeau, Mo.
Triangle
Mechanical Engineering

JOHN LUCKEY SWALLEY
Baxter Springs, Kans.
Independent, Quo Vadis, Satyr, A. I. M.
M. E., Vice-President Senior Class
Metal Mining

BERTRAM LOUIS ULREY
Eldon, Mo.
Triangle, Quo Vadis, St. Pat's Board
Mechanical Engineering



ALVIN AUGUST WEHRMAN
Higginville, Mo.
Independent
Civil Engineering





MICHAEL YOUNG
Chihuahua, Mexico
Independent
Chemical Engineering



GORDON H. GILLIS
Rolla, Mo.
Independent
Metallurgy



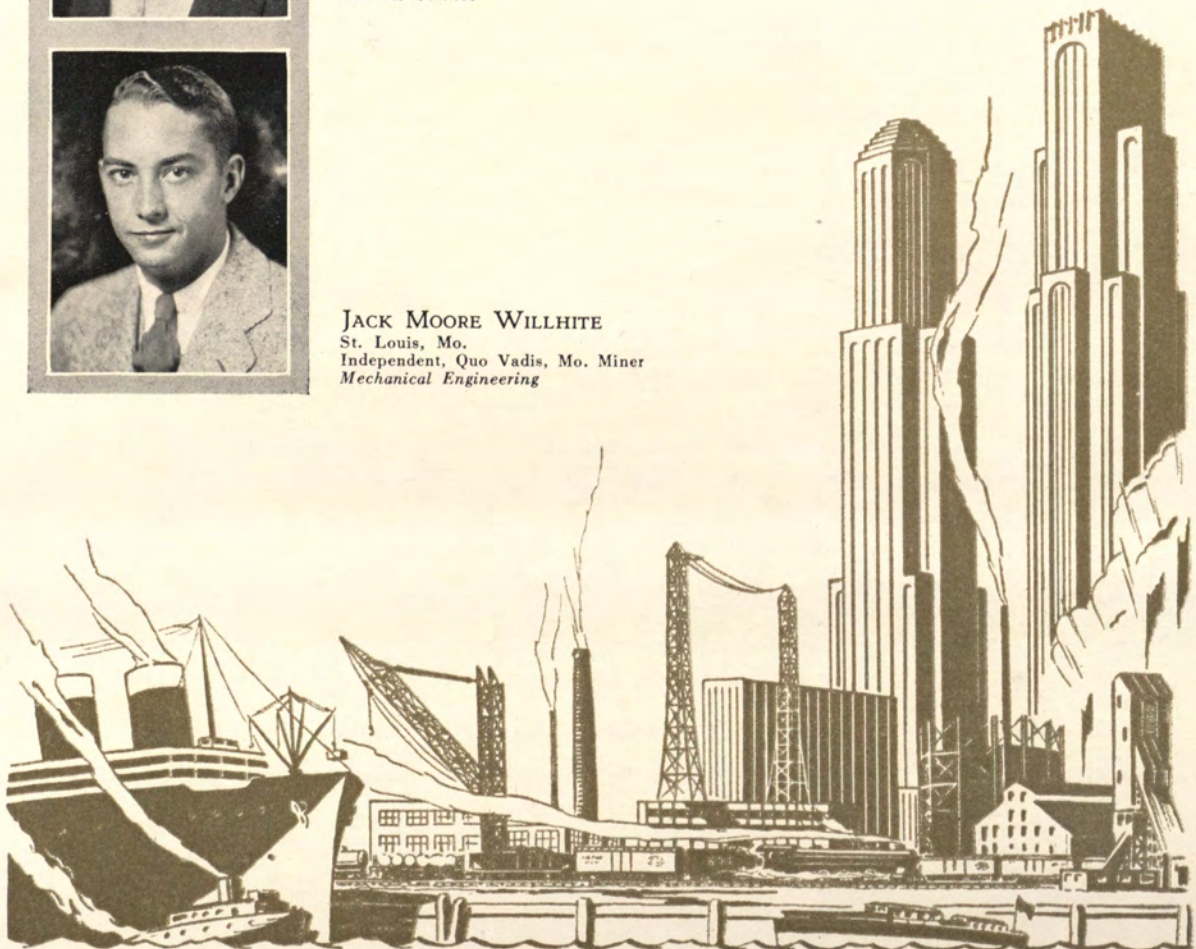
EDWARD ARCHIBALD HUFFMAN
St. Louis, Mo.
Prospector
Mining Geology



ELLEN FRANCES WOODMAN
Rolla, Mo.
Phi Kappa Phi
General Science



JACK MOORE WILLHITE
St. Louis, Mo.
Independent, Quo Vadis, Mo. Miner
Mechanical Engineering





HARRY FEDEROW
St. Louis, Mo.
Independent, Tau Beta Pi
Chemical Engineering

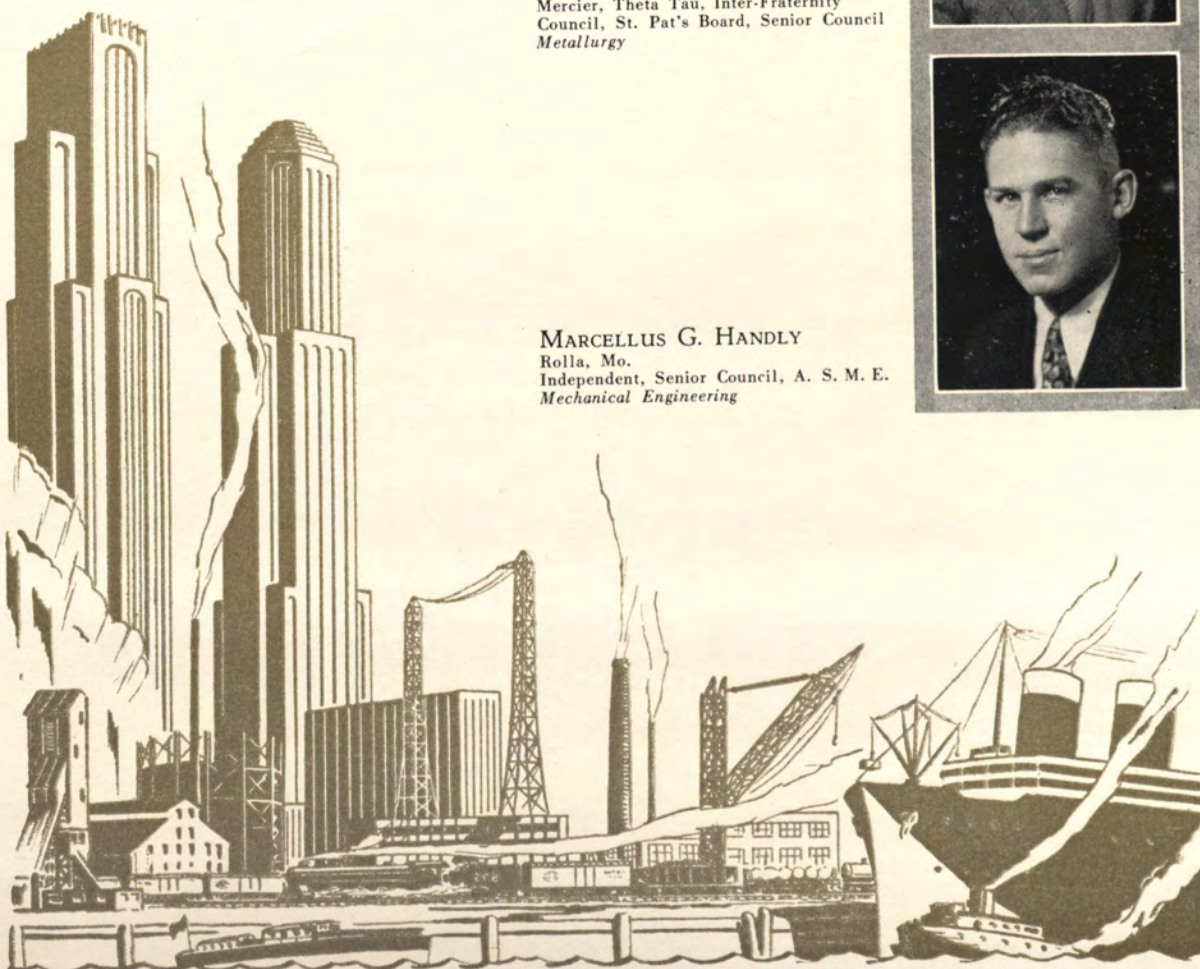
DAVID CUTLER
Woodbine, N. J.
Independent, Football
Electrical Engineering

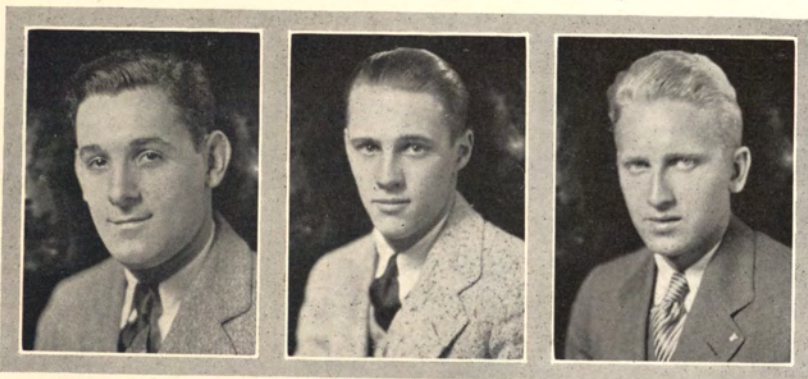
ALFRED W. BEINLICH
St. Louis, Mo.
Independent, Orten Society
Ceramic Engineering

BERNARD B. GROSS
St. Louis, Mo.
Mercier, Theta Tau, Inter-Fraternity
Council, St. Pat's Board, Senior Council
Metallurgy



MARCELLUS G. HANDLY
Rolla, Mo.
Independent, Senior Council, A. S. M. E.
Mechanical Engineering





ABE A. POLLOCK
Plainfield, N. J.
Independent
Chemical Engineering

CURT H. SCHMITZ
San Diego, Cal.
Independent, Satyr
Chemical Engineering

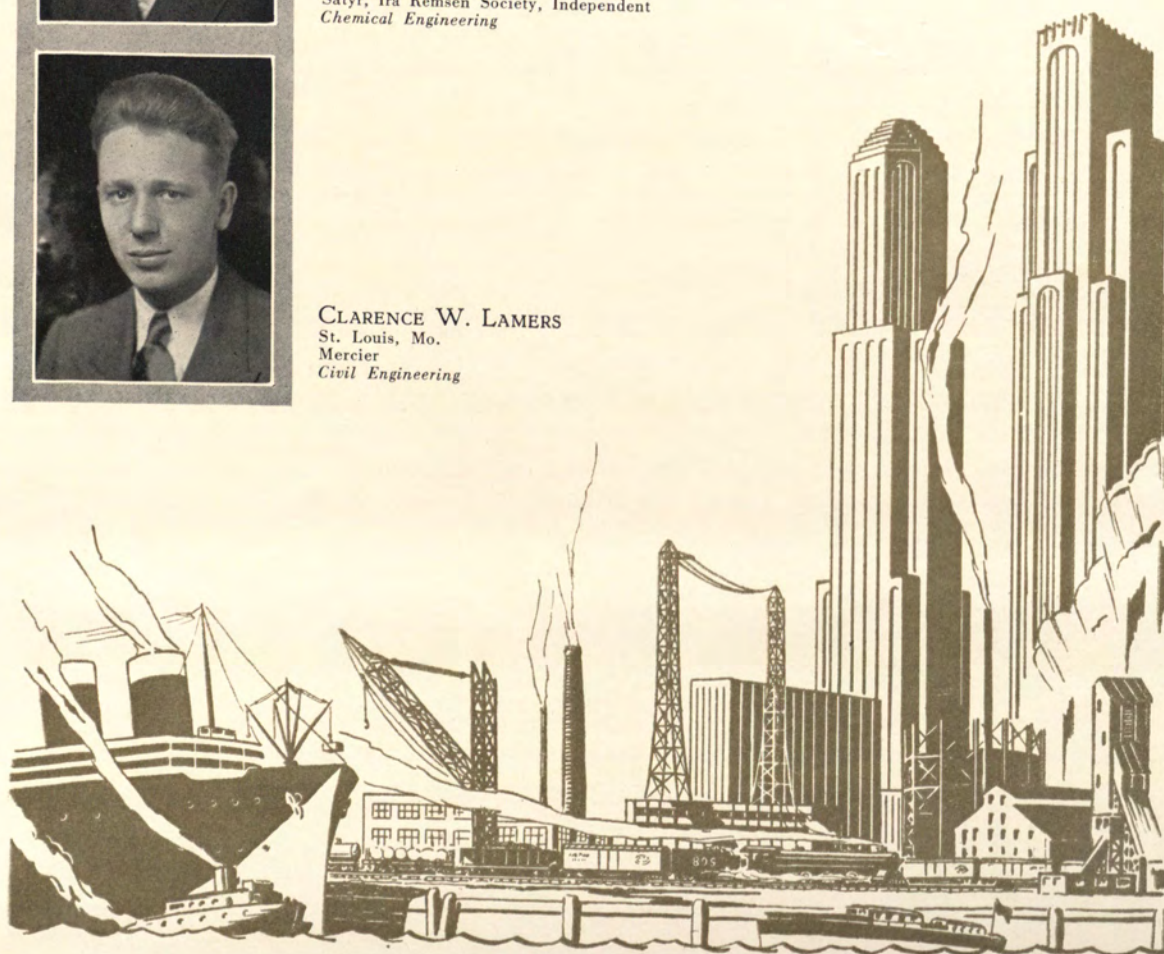
CYRIL J. WENGER
St. Louis, Mo.
Petroleum Engineering



RICHARD A. PARKER
Eureka, Mo.
Theta Tau, Tau Beta Pi, Quo Vadis,
Satyr, Ira Remsen Society, Independent
Chemical Engineering



CLARENCE W. LAMERS
St. Louis, Mo.
Mercier
Civil Engineering



MINERS



ROBERT MONROE CARPENTER
St. James, Mo.
Prospector, Quo Vadis
Mechanical Engineering

CHARLES LEO WILLIAM HUNZE
Cape Girardeau, Mo.
Independent
Chemical Engineering

MICHAEL J. KLINGER
St. Louis, Mo.
Kappa Alpha
Mechanical Engineering

WENDELL J. BARR
Rolla, Mo.
Independent
Metal Mining

JOH T. BRATTON
St. Louis, Mo.
Kappa Alpha, Inter-Fraternity Council, St.
Pat's Board, Senior Council, Miner-Rollamo
Trustee
Mechanical Engineering

ROBERT M. CARPENTER
St. James, Mo.
Prospector, Quo Vadis
Mechanical Engineering

HENRY B. COONS
Potosi, Wis.
Independent, Quo Vadis, Phi Kappa Phi
Chemical Engineering

FRANK A. CRIPPEN
Webster Groves, Mo.
Pi Kappa Alpha, Quo Vadis, Football
Metallurgy

JOHN F. DENTON
Buchner, Mo.
Independent, Football
Metal Mining

LEE H. DEWALD
Aurora, Ill.
Independent
Metallurgy

CHARLES P. FERBRACHE
Rolla, Mo.
Triangle, Satyr, A. S. C. E.
Civil Engineering

ROBERT S. GREEN
Mexico, Mo.
Sigma Nu, Orton Society
Ceramic Engineering

ROBERT J. GROOM
Belleville, Ill.
Prospector, A. S. C. E.
Civil Engineering

HARRY G. HEDGES
Rolla, Mo.
Kappa Alpha
Civil Engineering

ARTHUR R. HELMKAMP
Moro, Ill.
Independent, Quo Vadis, Tau Beta Pi
Civil Engineering

CLARENCE M. HINTON
Little Rock, Ark.
Prospector
Metal Mining

EDWARD D. HOERTEL
St. Louis, Mo.
Independent
Metal Mining

MINERS

CHARLES R. HUBBARD
Rolla, Mo.
Pi Kappa Alpha
Metal Mining

EARL R. JENKINS
Jefferson City, Mo.
Pi Kappa Alpha, Quo Vadis
Petroleum Engineering

MARY LEE JOHNSON
Rolla, Mo.
General Science

HOMER W. KRATTLY
St. Louis, Mo.
Independent, Tau Beta Pi
Civil Engineering

SIDNEY LEVY
St. Louis, Mo.
Tau Beta Pi, Phi Kappa Phi
Mechanical Engineering

JACOB M. LONDE
St. Louis, Mo.
Independent
Metallurgy

JAMES F. McDONALD
Springfield, Ill.
Independent, Football
Metallurgy

JOHN H. MCKINLEY
Rolla, Mo.
Sigma Nu, St. Pat's Board
Civil Engineering

NORMAN R. OPERLE
St. Genevieve, Mo.
Independent
Civil Engineering

WILLIAM R. POWELL
Rolla, Mo.
Independent
Metallurgy

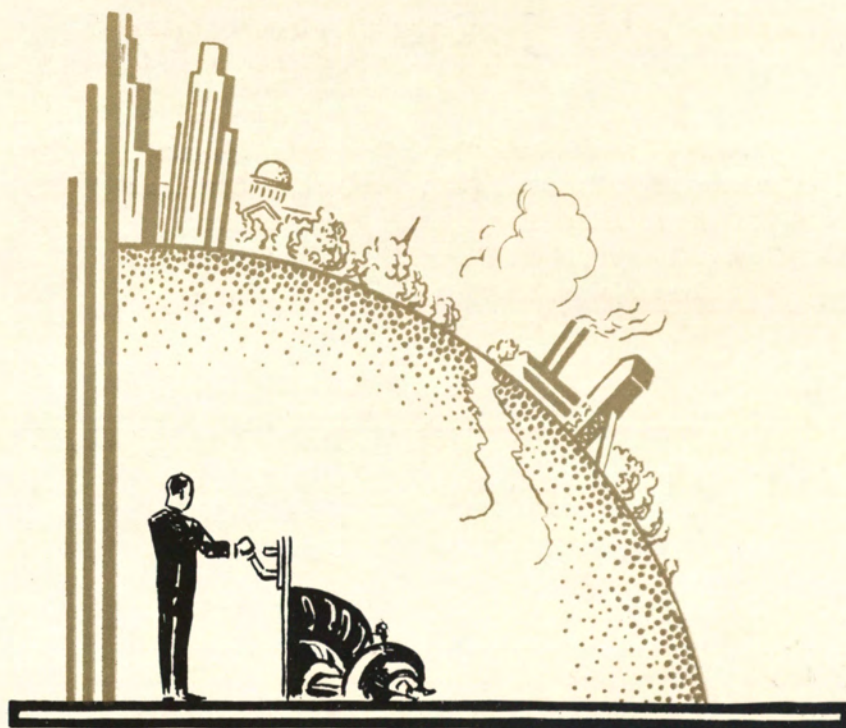
JOHN L. ROWAN
Rolla, Mo.
Sigma Nu, Satyr
General Science

SAM E. TAYLOR
Rolla, Mo.
Sigma Nu, Satyr
General Science

HERBERT O. TITTEL
Rolla, Mo.
Prospector
Civil Engineering

LESTER F. WILDBERGER
St. Louis, Mo.
Kappa Sigma, St. Pat's Board
Mechanical Engineering

ARTHUR J. WILLIAMS
Granite City, Ill.
Independent, Theta Tau, Satyr, Football
Civil Engineering



JUNIORS

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OF 1934



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 BRIENING, BUCK, COFFMAN, COLE, CUNNINGHAM, CZYZEWSKI
 DARLING, DECKER, EARLE, FAGAN, FLETCHER, FORT
 GIBSON, GILLESPIE, HALE, HEDGES, HENRICKSON, HOFFMAN
 IRWIN, JOSLIN, KEW, KLEE, KOZENY, KRUISE



Juniors

LaFOLLETTE, LAGEMANN, LARWOOD, McCONNELL, McREYNOLDS, MILES
 MURPHY, M. H. MURRAY, NUERNBERGER, O'BRYANT, OSWALD, PEERY
 PETERSON, POESE, POWER, RICHARDSON, SACKEWITZ, SCHAMEL
 SHECKLER, SIEVERS, SMELSER, STEWARD, STOLLE, SULLENTROP
 TAYLOR, WALTHER, WATSON, WEIGEL, WESTERFELD, ZELL



Juniors

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 W. R. POWER, *Vice-President*
 W. E. HEDGES, *Secretary*
 R. E. TAYLOR, *Treasurer*

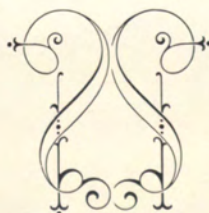
ABSHER, H. R., *Okawville, Ill.*
 ATKINSON, H. B., *New Canton, Ill.*
 BATES, W. E., *Sikeston, Mo.*
 BECK, R. H., *Miami, Okla.*
 BERMI, S. A., *St. Louis, Mo.*
 BOYD, H. E., *Flat River, Mo.*
 BRASAEMLE, R. I., *Barberton, Ohio*
 BRAZEAL, J. L., *Springfield, Mo.*
 BROWN, B. W., *Rolla, Mo.*
 BRIENING, W. H., *Jackson, Mo.*
 BUCK, R. H., *Webster Groves, Mo.*
 BURNHAM, J. G., *Paris, Ill.*
 BURY, C. L., *Kansas City, Mo.*
 CAMPBELL, W. J., *Jefferson City, Mo.*
 CEI, P. G., *Lexington, Mo.*
 COFFMAN, W. M., *Newburg, Mo.*
 COLE, R. C., *El Paso, Tex.*
 CUNNINGHAM, R. L., *Maplewood, Mo.*
 CZYZEWSKI, J. B., *Englishtown, N. J.*
 DARLING, J. W., *Kansas City, Mo.*
 DECKER, H. W., *St. Louis, Mo.*
 DONAHUE, T. S., *Rolla, Mo.*
 DOUTHITT, C. F., *Dover, Ohio*
 DUDLEY, E., *St. Louis, Mo.*
 DUNCAN, O. M., *St. Louis, Mo.*
 EARLE, H. C., *Philadelphia, Pa.*
 EDGAR, M. E., *Rolla, Mo.*
 FAGAN, D., *Doniphan, Mo.*
 FLETCHER, W. D., *Ironton, Mo.*
 FORD, H. T., *Springfield, Mo.*
 FORT, E. W., *Rolla, Mo.*

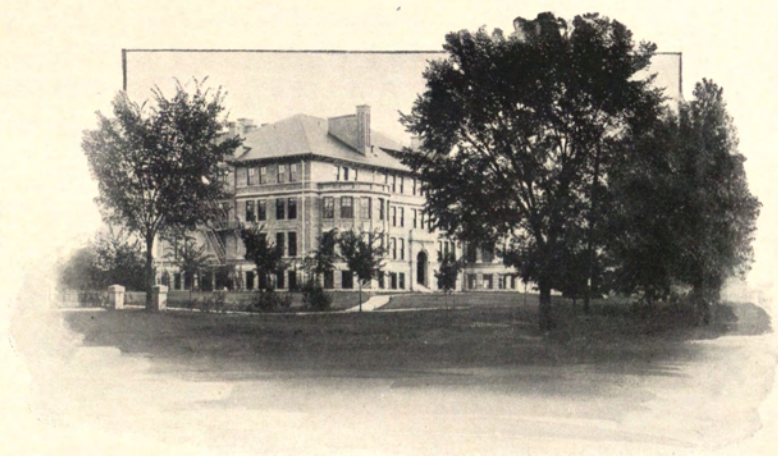
GALLOWAY, J. H., *Decatur, Ill.*
 GASTON, J. E., *Pittsburg, Kan.*
 GIBSON, D. T., *Denver, Colo.*
 GILLESPIE, H. P., *Rolla, Mo.*
 GRAHAM, T. R., *Pittsburg, Kan.*
 HADDOCK, H. B., *Valley Park, Mo.*
 HALE, D. P., *Palo Alto, Cal.*
 HALE, G. A., *Maplewood, Mo.*
 HEDGES, W. E., *Rolla, Mo.*
 HEIN, E. A., *St. Louis, Mo.*
 HENRICKSON, H. O., *Poplar Bluff, Mo.*
 HOFFMAN, H. A., *Rolla, Mo.*
 HUDSON, R. G., *Moweaqua, Ill.*
 HUBBELL, R. F., *Rolla, Mo.*
 HURD, F., *Rolla, Mo.*
 IRWIN, W. J., *St. Marys, Mo.*
 JACKSON, L. H., *Springfield, Mo.*
 JOSLIN, L., *Rolla, Mo.*
 KEW, C. E., *Kansas City, Mo.*
 KLEE, F. W., *Kansas City, Mo.*
 KOZENY, E. C., *St. Louis, Mo.*
 KRATTLER, G. L., *New Bloomfield, Mo.*
 KRUSE, C. W., *Cape Girardeau, Mo.*
 LAFOLLETTE, T. G., *Ft. Madison, Ia.*
 LAGEMANN, M. F., *St. Louis, Mo.*
 LARWOOD, M. B., *Albion, N. Y.*
 LINKENHEIL, U. J., *St. Louis, Mo.*
 MCCONNELL, F. A., *St. Louis, Mo.*
 McDONALD, P. C., *Macon, Mo.*
 McREYNOLDS, E. L., *Sikeston, Mo.*
 MAEHL, E. F., *St. Louis, Mo.*

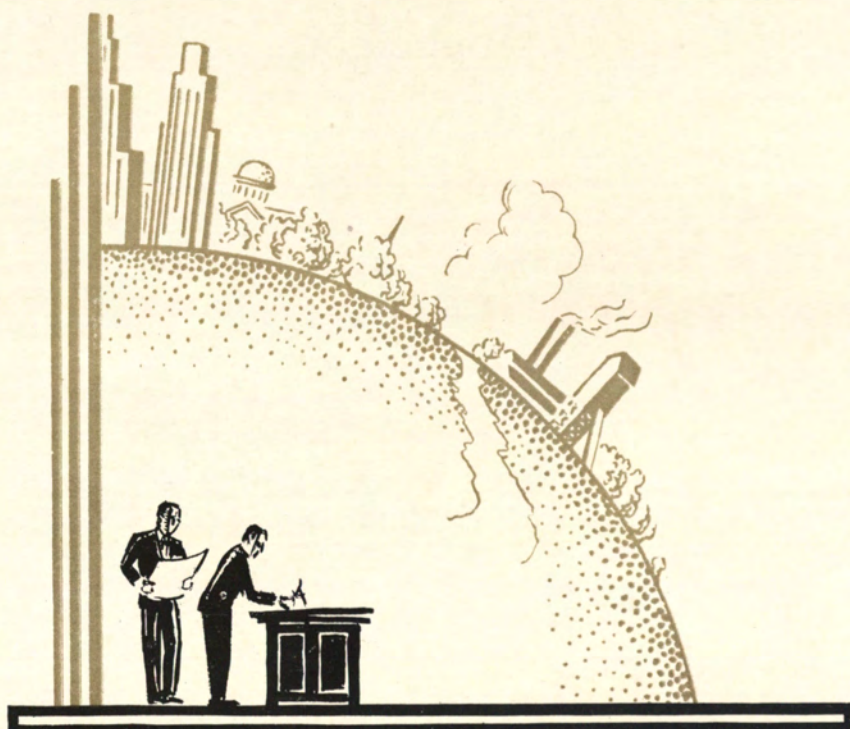
Juniors

MAISE, C. R., *St. Louis, Mo.*
 MALONEY, W. G., *Kansas City, Mo.*
 MEACHAM, J. C., *Barberton, Ohio*
 MILES, G. R., *Gray Summit, Mo.*
 MONTGOMERY, R. G., *Bartlesville, Okla.*
 MURPHY, C. J., *St. Louis, Mo.*
 MURRAY, M. H., *Rolla, Mo.*
 NOVINGER, K. G., *Nevada, Mo.*
 NUERNBERGER, O. L., *New Athens, Ill.*
 O'BRYANT, J. E., *Republic, Mo.*
 O'HEARN, J. J., *Kansas City, Mo.*
 OSWALD, A. W., *St. Louis, Mo.*
 PEERY, D. J., *Linneus, Mo.*
 PETERS, W. A., *Alton, Ill.*
 PETERSON, F. R., *Sullivan, Mo.*
 PFEIFFER, F., *Hartley, Iowa*
 POESE, L. E., *St. Charles, Mo.*
 POWER, W. R., *Kirkwood, Mo.*
 REESE, T. H., *East St. Louis, Ill.*
 RICHARDSON, G. S., *Brownwood, Tex.*
 SACKEWITZ, R. A., *Kansas City, Mo.*
 SANDOE, R. D., *University City, Mo.*
 SCAFE, R. J., *Kansas City, Mo.*
 SCHAMEL, W. S., *South Bend, Ind.*

SCHLEEVOUGHT, F. R., *Palisades, N. J.*
 SCHMIDT, N. A., *St. Louis, Mo.*
 SEGALL, C., *St. Louis, Mo.*
 SELLERS, G. A., *Kansas City, Mo.*
 SHICKLER, K. F., *St. Joseph, Mo.*
 SIEVERS, K. H., *Springfield, Mo.*
 SMELSER, P. E., *St. Charles, Mo.*
 SPRINGER, W. R., *Kansas City, Mo.*
 STEDELIN, K. J., *Kicking, Mo.*
 STEWARD, T. J., *Flat River, Mo.*
 STOLLE, E. B., *Evansville, Ill.*
 STONE, R. L., *Norwalk, Ohio*
 SULLENTROP, L. J., *Washington, Mo.*
 SWIFT, R. E., *Rolla, Mo.*
 TAYLOR, R. E., *St. Louis, Mo.*
 TIEMANN, R. A., *Maplewood, Mo.*
 TOBIN, J. H., *Alton, Ill.*
 WALTHER, A. H., *Rolla, Mo.*
 WATSON, D. O., *East St. Louis, Ill.*
 WEBER, C. L., *Webster Groves, Mo.*
 WEIGEL, R. G., *Webster Groves, Mo.*
 WELLS, W. D., *Indianapolis, Ind.*
 WESTERFELD, W. W., *St. Charles, Mo.*
 ZELL, J. H., *St. Louis, Mo.*







SOPHOMORES

CLASS
OF 1935



Sophomores

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W. H. CODDINGTON.....	<i>Secretary</i>
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AITTAMA, J. W., St. Louis, Mo.	HAFFNER, H. J., St. Louis, Mo.
ALPER, A., St. Louis, Mo.	HARDAWAY, E. G., St. Louis, Mo.
AYLWARD, A. T., St. Louis, Mo.	HARMON, H. L., Granite City, Ill.
BADAME, P. A., Buffalo, N. Y.	HARROD, J. E., Mooris, Ill.
BALLARD, T. W., French Lick, Ind.	HEITZMAN, J. V., Chicago, Ill.
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BAY, L. A., St. Clair, Mo.	HOLTMAN, L. W., Perryville, Mo.
BEARD, R., St. Louis, Mo.	HOWE, W. A., University City, Mo.
BERRY, D. L., Clayton, Mo.	HOWERTON, D. R., Rolla, Mo.
BOLES, A. J., Jefferson, Mo.	JOHNSON, R. W., Paris, Ill.
BOOK, W. T., Dexter, Mo.	KAMPER, O. W., St. Louis, Mo.
BOMMER, T. J., Bourbon, Mo.	KIRCHOFF, E., East St. Louis, Ill.
BORGSTEDE, G. T., St. Louis, Mo.	KNOLL, R. J., St. Louis, Mo.
BREWER, M. H., Rolla, Mo.	KISTER, F. H., St. Charles, Mo.
BREWER, D., St. Louis, Mo.	KOHLER, H. J., St. Louis, Mo.
BRISCH, H. A., Rolla, Mo.	KOMM, H., St. Louis, Mo.
BROWN, G. J., Albion, N. Y.	KOOPMAN, A. P., St. Louis, Mo.
BUTCHER, R. W., Cape Girardeau, Mo.	LANGE, H. F., East St. Louis, Ill.
CODDINGTON, W. H., Springfield, Ill.	LISCHER, M. W., St. Louis, Mo.
COLMAN, HELEN C., Cooperstown, N. Y.	MCCARTHY, S. R., Hamilton, Ill.
COLMAN, H. B., Cooperstown, N. Y.	MCCASKILL, J. I., Joplin, Mo.
CRUSKIE, E. F., Utica, N. Y.	MCDONALD, C. H., Roodhouse, Ill.
DAILY, E. J., Rolla, Mo.	MCDILL, W. H., Rolla, Mo.
DALLMEYER, H. D., St. Charles, Mo.	McKINNEY, H. M., Grandin, Mo.
DANFORTH, W. B., Youngstown, Ohio	MACHALEK, C. W., St. Louis, Mo.
DEROY, G. L., St. Charles, Mo.	MAGYAR, J. E., Roebling, N. J.
DETZLER, G. K., South Bend, Ind.	MASHEK, J. W., St. Louis, Mo.
DORRANCE, L. L., Clinton, Mo.	MATLOCK, S. R., St. Louis, Mo.
DUTTON, D. W., St. Louis, Mo.	MAYER, J. A., Webster Groves, Mo.
ELAM, A. G., Perry, Mo.	MENKE, B. A., St. Louis, Mo.
FENWICK, C. L., St. Louis, Mo.	MEYER, L. W., St. Louis, Mo.
FISCHER, M. M., Sedalia, Mo.	MITCHELL, C. A., Morris, Ill.
FLETCHER, G. H., St. Louis, Mo.	MOOG, H. C., St. Louis, Mo.
FRANK, A. T., Girard, Ill.	MORGAN, V. D., St. Louis, Mo.
GELDMACHER, O., St. Louis, Mo.	MURPHY, J. J., St. Louis, Mo.
GLSDORF, N. J., St. Louis, Mo.	MUSIC, C. E., Ferguson, Mo.
GRAFFT, L. E., Rolla, Mo.	NEEL, W. O., Macon, Mo.
HACKETT, H. J., Salem, Ohio	NICKEL, W. J., St. Louis, Mo.
	NOLDE, G. T., St. Louis, Mo.

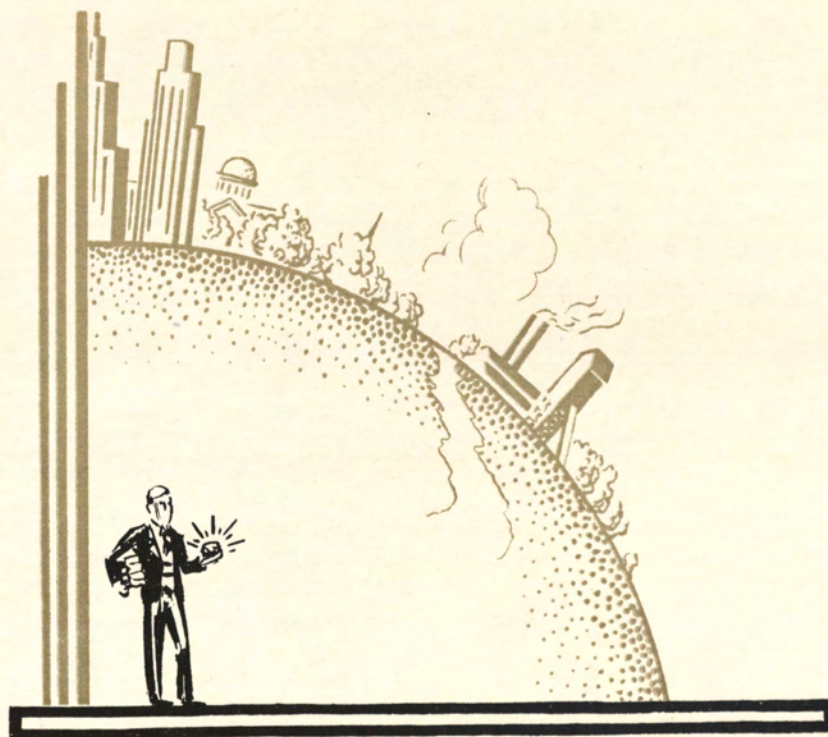
Sophomores

OESTREICHER, F. W., St. Louis, Mo.
 PATTEN, T. M., Chicago, Ill.
 PEARSON, E. T., Joplin, Mo.
 PENZEL, G. A., Jackson, Mo.
 POWELL, WILMINA, Rolla, Mo.
 PROSKINE, A. C., So. Kortright, N. Y.
 PULLEY, N. R., Kansas City, Mo.
 REINMILLER, W. F., Joplin, Mo.
 ROLOFF, A. C., Kirkwood, Mo.
 ROSENBLOOM, J. A., St. Louis, Mo.
 SCHENCK, J. G., St. Louis, Mo.
 SETTLE, J. C., St. Louis, Mo.
 SIEVERS, A. F., Edwardsville, Ill.
 SIMMONS, R. W., Batavia, N. Y.
 SKELTON, I. W., Palisades Park, N. J.
 SLOSS, J. P., St. Louis, Mo.
 SMITH, J. H., St. Louis, Mo.
 SNYDER, C. W., Sedalia, Mo.
 SOLOMON, R. C., Webster Groves, Mo.

SPOTTI, E., Staunton, Ill.
 SPRINGER, R. M., East St. Louis, Ill.
 STRUPP, J. J., St. Louis, Mo.
 SWEETIN, F. J., Kansas City, Mo.
 SCZUKA, A. J., St. Louis, Mo.
 TAYLOR, J. E., Rolla, Mo.
 TEUFERT, E. A., Staunton, Ill.
 THIAS, W. H., St. Louis, Mo.
 THOELE, W. N., St. Louis, Mo.
 THORPE, C. J., Iantha, Mo.
 TOWSE, A. R., Sikeston, Mo.
 TURKEN, M. W., University City, Mo.
 TWYMAN, W. G., Dayton, Ohio
 WALTENSPHIEL, A. B., Rolla, Mo.
 WEISSMAN, D., St. Louis, Mo.
 WENDER, MAX, St. Louis, Mo.
 WEST, DON, Kansas City, Mo.
 WORSECKS, A. L., St. Louis, Mo.
 WOOD, H. P., Jacksonville, Mo.







FRESHMEN

CLASS
OF 1936



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J. PETERS.....	<i>Secretary</i>
JOHN KISER.....	<i>Treasurer</i>

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 BAKER, W. A., Hammond, Mo.
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 BENTLEY, H. R., Webster Groves, Mo.
 BOLL, L., St. Louis, Mo.
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 COMPTON, H. E., St. Louis, Mo.
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 DUENAS, L. F., Bohia De Caraquez,
 Ecuador
 EVANS, C. R., Dayton, Ohio
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 FARNHAM, A. A., Rolla, Mo.
 FISHER, R. L., St. Louis, Mo.
 FENNER, J. A., St. Louis, Mo.
 FISS, E. C., Rolla, Mo.
 FORD, J. H., Danville, Mo.
 FREEMAN, J. L., Glenwood, Mo.
 GALLAHER, J. A., St. Louis, Mo.
 GAULT, C. H., St. Louis, Mo.
 GERLACK, J. H., St. Louis, Mo.
 GETTIER, V. E., Sedalia, Mo.
 GLOER, E. W., St. Louis, Mo.
 GORDON, J. P., Webster Groves, Mo.
 GRASSMUCK, E. A., Ferguson, Mo.
 GREEN, M. E., Calhoun, Mo.
 GRIMM, D., Ferguson, Mo.
 GROBER, M. H., University City, Mo.
 HALL, J. H., Newark, N. J.
 HANSON, K. O., St. Louis, Mo.
 HASSLER, J. M., St. Louis, Mo.
 HERMANN, A. K., St. Louis, Mo.
 HILLMEYER, F. L., Webster Groves,
 Mo.

HOENER, A. J., Webster Groves, Mo.
 HOUGH, M. G., Tulsa, Okla.
 HOUSEKNECHT, P. D., Batavia, N. Y.
 HUBBARD, J. R., Rolla, Mo.
 ISHIGURO, H., Kalaheo, Hawaii
 JONES, W. T., St. Louis, Mo.
 KISER, J. E., Springfield, Ill.
 MCCARRON, D. F., St. Louis, Mo.
 MCCAW, J., Rolla, Mo.
 MCGREGOR, J. L., Rolla, Mo.
 McLAUGHLIN, J. W., St. Louis, Mo.
 MARSHALL, W. D., Huntsville, Mo.
 MATTEI, P., St. Louis, Mo.
 NENEFEE, J. H., Jefferson City, Mo.
 MICHEL, H. F., Edwardsville, Ill.
 MOONEY, W. C., St. Louis, Mo.
 NIEMILLER, F. C., Rolla, Mo.
 ORCUTT, C. L., Memphis, Tenn.
 PEEBLES, B. E., Dayton, Ohio
 PETERS, J. E., Springfield, Mo.
 PICKER, C. R., St. Louis, Mo.
 PLUMMER, N., Canon City, Colo.
 POELLE, T., Freedom, Mo.
 POST, S. S., Parma, Mo.
 RASOR, J. P., Carlsbad, New Mexico
 RAU, M. H., St. Louis, Mo.
 REED, E. A., Maplewood, Mo.
 REED, E. H., Jefferson Barracks, Mo.
 RODMAN, W. K., Kirkwood, Mo.
 ROES, T. A., St. Louis, Mo.
 ROY, E. A., Vernon, N. Y.
 RUWWE, J. W., St. Louis, Mo.
 SCHNEIDER, R. E., St. Louis, Mo.
 SCHWAB, F., Joplin, Mo.
 SCHWALBERT, W. H., Clayton, Mo.
 SEYMOUR, R. M., Hillsboro, Ill.
 SMITH, J. C., Brooklyn, N. Y.
 SPAHR, M. R., Webster Groves, Mo.
 SPITZER, E. J., St. Louis, Mo.

Freshmen

STRIKER, R. H., St. Louis, Mo.
 STUTZKE, J. F., St. Louis, Mo.
 SULLIVAN, W. L., Ferguson, Mo.
 TAYLOR, M. W., Ft. Lauderdale, Fla.
 TETLEY, C. L., Sikeston, Mo.
 THOMAS, G. T., Kansas City, Mo.
 TOWSE, B. W., Brighton, Ill.
 TOWSE, M., Macon, Mo.

VINCENT, J. A., Belleville, Ill.
 WALKER, W. E., Cape Girardeau, Mo.
 WARREN, S. C., Anderson, Mo.
 WILLIAMS, E. A., Seymour, Mo.
 WOERHEIDE, A. E., St. Louis, Mo.
 WOMMACK, T. W., Rolla, Mo.
 WRIGHT, J. W., Webster Groves, Mo.



GRADUATE STUDENTS

J. I. MOORE.....	Dexter, Mo.	S. R. B. COOKE.....	Thawes, New Zealand
LUCY McMAHON	Rolla, Mo.	R. G. HOLMES.....	Piedmont, Mo.
G. W. ECKERT.....	E. St. Louis, Ill.	JOHN SABINE.....	Merigold, Miss.

UNCLASSIFIED STUDENTS

ROBERTA ALLEN	Rolla, Mo.	ISABEL B. ROLUFS.....	Arlington, Mo.
MILDRED BROWN.....	Rolla, Mo.	CLAUDIA SMITH.....	Rolla, Mo.
MILDRED COFFMAN.....	Rolla, Mo.	W. C. BARNARD.....	Seneca, Mo.
E. DONAHUE.....	Rolla, Mo.	L. F. DAKE.....	Rolla, Mo.
A. FAYE HAWKINS.....	Rolla, Mo.	B. C. HARVEY.....	Rolla, Mo.
HELEN N. JOHNS.....	St. James, Mo.	J. P. HARVEY.....	Rolla, Mo.
HELEN E. KILPATRICK.....	Rolla, Mo.	P. R. LOVE.....	Rolla, Mo.
MARJORIE LEWIS.....	Rolla, Mo.	A. L. McRAE.....	Rolla, Mo.
F. C. NIEMILLER.....	Rolla, Mo.	W. R. MOORE.....	Webster Groves, Mo.
SYBIL G. POWELL.....	Rolla, Mo.		

SPECIAL STUDENTS

G. H. BRUENING.....	St. Louis, Mo.	A. A. FARNHAM.....	Rolla, Mo.
JOHN L. DOXEY.....	Rolla, Mo.		





ATHLETICS

J. A. Garcia

Coaching Staff

HAROLD GRANT, *Head Coach and Director of Athletics*

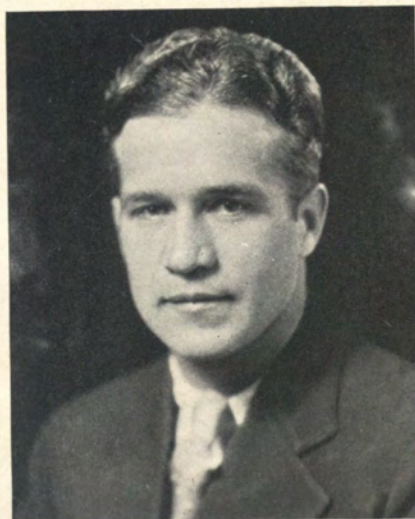
JUNIOR BROWN, *Assistant Coach*

Coach Grant has completed his fifth successful season for the Miners and has turned out winning teams every year. He and Brown have become known throughout the state for the fighting teams that they build and these same teams are feared wherever they play. To quote from the Kansas-City Journal Post on the conference selections, "Down at Rolla are Coach Grant and his great Miner team." And so even those who are not connected with the school realize the effects of Grant's tutelage.

Both of these men were superior athletes in college and have a thorough knowledge of the subjects that they teach. We hope to see them remain for many more seasons and develop more teams like those that they have turned out in the past.

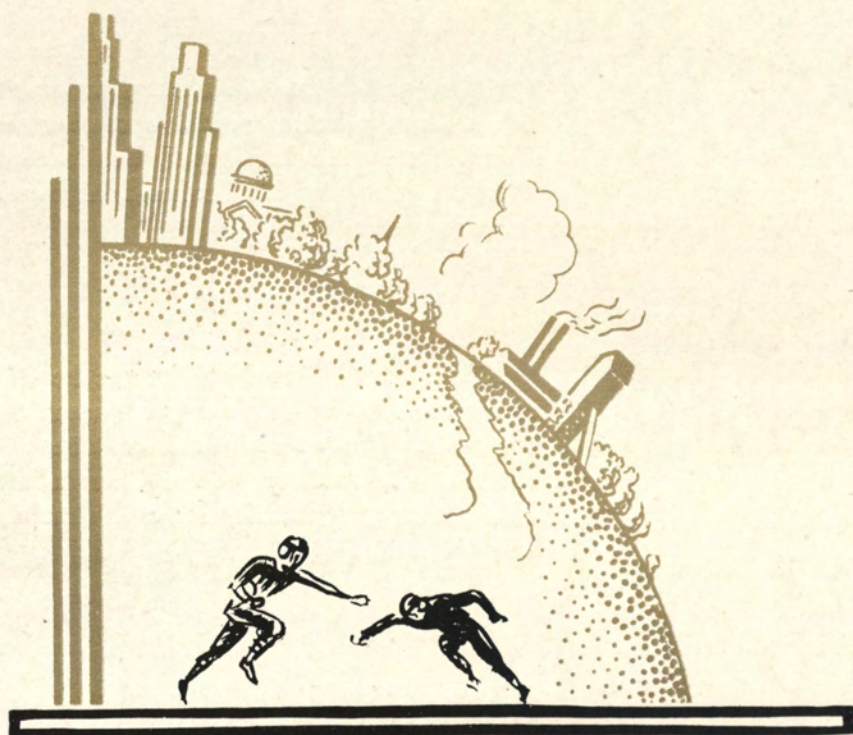


GRANT



BROWN





FOOTBALL



MINERS



McDONALD
(Captain)
Halfback

Jimmy was a great back and an able leader during the season, placing on the second team of the All-Conference. He has ended his football career in a blaze of glory by his broken-field running and good defense work.



KIRCHOFF
(Captain-elect)
End

Kirch proved himself to be the best Miner end for many years and this year was named the best end in the state. He was selected captain of the All-State team and placed on the All-Conference first team. Kirch will be a fine leader and should have a great season next year.



OSWALD
Guard

Ray has played three years of stellar football for the Miners and this year he demonstrated his best brand, the result being shown in his selection for the All-Star Conference team. Ray has another season to perform.



I. C. SPOTTI
End

The older of the two brothers and a good end, Irvino made his side of the line impregnable to attack. He will be absent from the lineup next fall and will leave a big vacancy.



MINERS

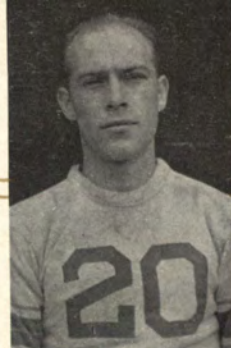
Roy placed on the second team in the conference selections and was one of the best pass throwers in the state. The combination of Towse to Kirchoff was known and feared far and wide and they accounted for several victories during the season. Roy has one more season to play for the Miners.

Gibby has often been named as one of the best tackles in the state and has certainly proved his right to such laurels. He was named on the All-Star team and broke through consistently to stop plays before they got under way. He will leave a gap next year that will be almost impossible to fill.

Pete, in spite of his light weight in the center position, played a fine season as roving center and was instrumental in breaking up a great many plays through the line. His accurate passing and fine defensive work will aid the Miners again next year.

Arty concluded his football playing with the best year since he has been out. In several of the games he stood out as the only man who could gain consistently and he proved himself to be a fine broken-field runner. His place will be hard to fill next fall.

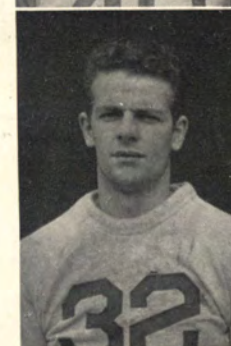
TOWSE
Quarterback



GIBSON
Tackle



MCDONALD
Center



WILLIAMS
Halfback



MINIERS



WOMMACK
Fullback



LEVY
Guard



HARDAWAY
Guard



E. SPOTTI
Center

Mack, a freshman filling the difficult position of fullback, played a fine game and lived up to his great high-school reputation. He, too, has three more years to play and should be one of the best with more experience.

Levy was always ready when a substitute guard was needed and he played a superior brand of football, especially in the Arkansas game. He will be lost to the squad next season.

Another sophomore who was outstanding in the line. Eads played a great defensive game and was strong on offense. He will be a big asset during the next two seasons.

Another great center who combined weight with ability and such a combination spelled disaster to opponents. Spotti was a big cog in the center of the line and has another two years of play before him.



MINERS

Dave, in his second year of varsity football, carried the brunt of the punting for the second team and accounted for many long gains. He should be a fine player during the coming two years.

Another of the relief guards who can always be counted on to play a good game when needed. Denton graduates this year and will be hard to replace.

Joe, playing his second season for the Miners, again demonstrated why he is one of the best in the conference. He played a consistently good game throughout the season. Joe has two more years to play.

Freddie, a freshman this season, developed into one of the best blockers seen here in a long time, and when given the ball he usually accounted for a good sized gain. Schwab will have three more years of competition and great things are expected of him.

HOWERTON
Halfback



DENTON
Guard



HASSLER
Tackle



SCHWAB
Halfback

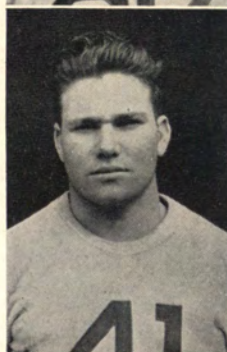




RICHMOND
End



MAGYAR
Fullback



TETLEY
Tackle



MCGREGOR
Halfback

MINERS

Another senior who gave a good account of himself, being an excellent pass receiver and playing well on defense. Ralph was a big help to the wing position and will be missed next fall.

Magyar was a good fullback when needed and combined speed with weight in hitting the line. He also will play for two more years.

Tetley was another of the freshmen who distinguished themselves this season. He presented a stone-wall defense and opened up large holes on offense.

Jimmy, in spite of lack of football experience and his light weight, developed into a good running back. He is the speed merchant of the squad and has three more seasons to play.



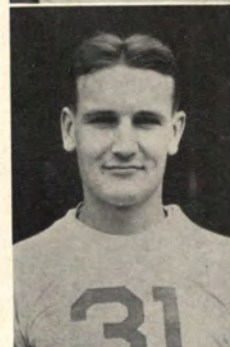
MINERS

TOWSE
End



Mit, the youngest of the illustrious Towse brothers, played for the first time this fall and showed that he will be one of the best with another year of experience. He was alert at breaking up plays and has three more seasons in which to play.

PENZEL
Tackle



Penzel, a new man for the Miners. His playing has been aggressive and powerful. Penzel has two more years to play and should be a valuable man.

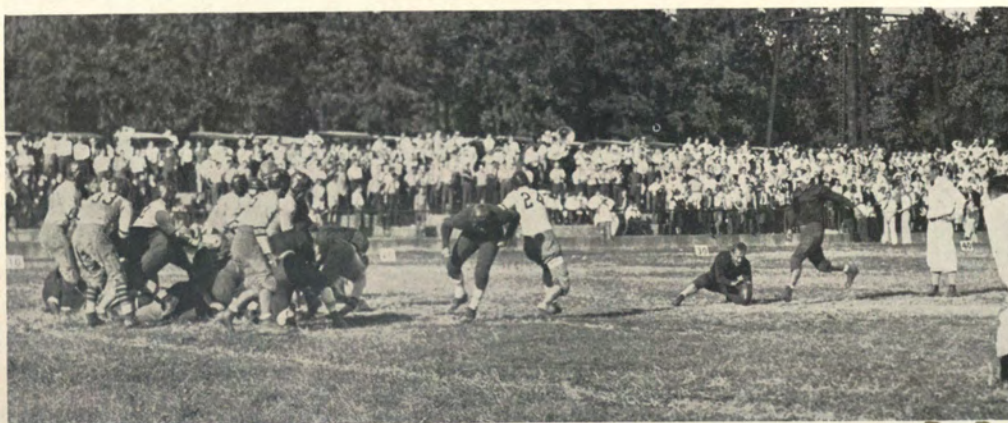
The Season

MINERS, 0; PITTSBURG TEACHERS, 13

Opening the season against the heavy veteran eleven of the Pittsburg Teachers from Pittsburg, Kansas, the Miners' light and somewhat inexperienced team went down in defeat by the score of 13-0. It was the varied attack and unusual line shift presented by the Teachers that overpowered the Silver and Gold as Pittsburg's running backs crashed through the line and went around end for long and consistent gains. The Miner offense was stopped completely at end and could gain only a very few yards through the line. Neither team showed an especially efficient air attack.

The Miner offense was led by Captain McDonald and Roy Towse, while the defense play disclosed Kirchoff, Gibson, and Hardaway as the outstanding men.

During the early part of the first quarter the two teams exchanged punts with Pittsburg having the better of the duel. Late in the first period, after partially blocking a quick kick, the Teachers began a sustained drive in mid-



MINERS

field which carried them to the Miner five-yard line as the quarter ended. After two tries in the second quarter, the Teachers carried the ball over for the first score and converted the extra point. Again later in the same quarter the Teachers threatened to score but lacked the punch necessary to carry the ball over.

During most of the third period the Teachers remained in possession of the ball and forced the play into Miner territory. Early in the final period a long pass coupled with some beautiful runs carried the ball over for the second and final score of the game. The kick for the extra point was low. The game ended with Pittsburg in possession of the ball in mid-field.

MINERS, 20; ARKANSAS UNIVERSITY, 19

A fighting Miner football team came from behind in the latter portion of the fourth quarter when defeat seemed inevitable and by a brilliant passing attack defeated Arkansas's Razorbacks by a 20-19 score. With only seven minutes left to play and the score 19-6 in favor of Arkansas, the Miner passing combination of Towse to Kirchoff opened up and scored two touchdowns to tie the score and Kirchoff booted the ball squarely between the uprights for the extra point, sufficient margin for a victory.

Early in the first quarter the Razorbacks began a passing attack which carried the ball to the Miner one-foot line, but there the Silver and Gold line stiffened and four tries failed to make the score.

Again in the second period the Arkansas eleven resorted to the air and tossed a 26-yard pass to place the ball on the one-yard line. A line plunge carried it over for the first counter but the kick for goal was wide.

In the third quarter the Miners' running and passing attack functioned perfectly and a touchdown resulted, with McDonald scoring. Soon after that a Miner punt was blocked and converted into a touchdown for Arkansas. Again in the third quarter Arkansas scored when La Forge, speedy Razorback right half, intercepted a pass and ran 55 yards for a touchdown.

In the final period the Miners recovered a fumble on the eleven-yard line and Towse passed to Kirchoff for the touchdown. The kick was good. Later in the quarter Towse tossed an eleven-yard pass and a twenty-five-yard pass to account for another touchdown, Kirchoff carrying the ball over and kicking the extra point. The game ended with the ball in Arkansas's possession in their own territory.

MINERS, 40; DRURY, 0

Playing their second home game of the season, the Miner powerhouse ran roughshod over the Drury Panther's eleven from Springfield to capture the contest by the one-sided score of 40-0.

The Silver and Gold assumed the offensive in the first few minutes of the game and two minutes after play began McDonald dashed 47 yards to place the ball in scoring position and then carried it over on the next play. With McDonald, Williams, and Towse slashing the Drury line to shreds, two touchdowns were chalked up in the first period.

The remaining three quarters were repetitions of the first one with long gains being made almost at will. The Miner line functioned perfectly and opened up huge holes for the backs to go through.

Drury played rather ragged football and had several passes intercepted that accounted for two Miner scores. Towse contributed four touchdowns and McDonald and Williams each made one.

MINERS

MINERS, 7; KIRKSVILLE TEACHERS, 12

In one of the most exciting games of the season the Miners journeyed up to Kirksville where they met with a 12-7 reversal at the hands of the Teachers' fast eleven. During the first half, the Teachers played the Miners off their feet, gaining consistently and also stopping all Miner offenses just as consistently.

In the first quarter the Bulldogs of Kirksville began a sustained drive in mid-field that terminated only when a twelve-yard pass into the end zone accounted for the first score. The try for the extra point failed.

In the second period both teams resorted to the air but neither seemed to be able to make a pass attack function correctly.

Again in the third quarter the Teachers began another sustained drive from mid-field and the backs ripped through the Miner line for long gains. These gains through the line, coupled with a completed pass for fifteen yards, gave the Bulldogs their second score but again the try for extra point failed.

In the latter part of the fourth quarter the Miners got a break when Gibson broke through to block a punt on the ten-yard line. From there McDonald carried the ball over on the first play. Kirchoff converted for the extra point. After scoring the Miners began to fight and carried the ball on a sustained drive from their own twenty-yard line to the Teachers' fourteen-yard stripe before being stopped. A loss on an attempted pass and several penalties forced the ball back to mid-field again. As the game ended Towse tossed a long pass to Kirchoff to again place the ball in a scoring position.

MINERS, 34; SPRINGFIELD, 7

For their third game of the season on foreign soil the Miners journeyed down to Springfield to take the Bears of the Teachers College into camp by the overwhelming score of 34-7. The stellar work of the Miner line, coupled with the sparkling offense of the backs accounted for the large margin of the victory.

After three minutes of play had passed and the Miners had taken Springfield's punt following their futile attempts to gain, Towse crossed the goal line for the Silver and Gold's first score. He was helped on his way by an 18-yard jaunt by Captain Jimmy McDonald.

Again in the initial period Towse tossed a 20-yard pass to McDonald and from there McDonald carried the ball over. Later in the period Williams broke into the scoring column by dashing fifteen yards to the Bears' two-yard line and scoring on the next play. No scoring was done in the second quarter, the period being turned into a kicking duel with the Teachers having the best of it.

During the last half the Miners scored twice more with Schwab carrying the ball over once and Towse making the other one. The Bears made their lone tally on the Miner third team as the result of an intercepted pass.

MINERS, 0; TULSA UNIVERSITY, 26

Meeting the smoothest working team encountered during the season when they played the Tulsa Golden Hurricane at Tulsa, the Miners were defeated by the score of 26-0. The heavy Tulsa line withstood all Miner ground gaining attempts and the wide playing Hurricane ends smothered all chances for gains in that direction. Behind splendid interference the shifty, hard-running Tulsa backs piled up a good total of yards from scrimmage. The passing and running offensive of the Golden Hurricane kept the Miners on the defense during most of the game.

MINERS

The first Tulsa score came as the result of a long pass in the middle of the initial period. The second Tulsa score came as the result of a beautiful return of 58 yards after receiving a punt.

Tulsa failed to score again in the third quarter. In the final period Towse dashed 35 yards after a fumble had been recovered and placed the ball on the Tulsa five-yard line. The Miners were unable to gain from there in four plays and so their only scoring threat ended. Tulsa scored twice more in the quarter before the game ended.

MINERS, 0; ST. VIATOR COLLEGE, 0

The Miners closed the 1932 football season with a scoreless tie against St. Viator on the home field. The game was played in a veritable sea of mud and neither team was able to gain to any extent. The Miners superior playing dominated the game, but due to the condition of the field and the damp, soggy ball, the backs were unable to carry the ball over for a score.

The Miners outplayed their opponent in every quarter, but the superior punting displayed by the Irish prevented several touchdowns. After advancing the ball to within the shadows of the goal posts several times, bad breaks stopped the drives. St. Viator only threatened to score once when they advanced the ball to the 14-yard line and failed to complete a pass over the goal line.

McDonald and Williams carried the ground gaining burden for the Miners during most of the game. P. C. McDonald, Gibson, and Kirchoff played their usual good games in the line. The Miners' much-vaunted passing attack was unable to function because of the condition of the ball. Most of the game was a punting duel, with St. Viator having considerably the best of it.

SUMMARY

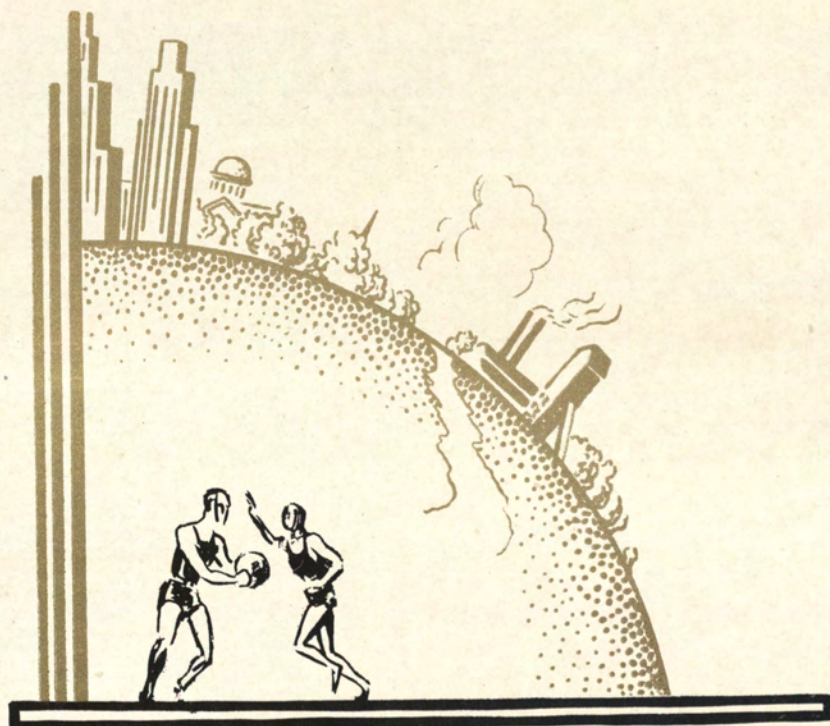
Beginning the season with only a few lettermen back and with much new untried material Coach Grant turned out a team that won more than their share of games and succeeded in defeating several of the best elevens in this section of the country.

The schedule this season was a hard one with only two comparatively easy games being carded. Much credit is due to the wearers of the Silver and Gold who played so brilliantly for the school even after receiving such poor support from the student body.

Several of the individual members gained distinction for themselves during the season. Kirchoff was selected as captain and end of the All-State team and Towse was named as quarterback on the second team of the conference All-Star eleven. The first team of the All-Conference included Kirchoff at end, Oswald at guard, and Gibson at tackle. Captain McDonald also made the second team of the All-Star aggregation at the position of fullback.

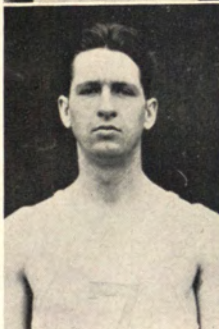
SCORES FOR THE SEASON

Miners, 0; Pittsburg Teachers, 13
Miners, 20; Arkansas U., 19
Miners, 40; Drury, 0
Miners, 7; Kirksville, 12
Miners, 34; Springfield, 7
Miners, 14; Maryville, 0
Miners, 0; Tulsa, 26
Miners, 0; St. Viator, 0
Total: Miners, 115; Opponents, 75



BASKETBALL





MINERS

Lettermen

GROSS (*Captain*), *Forward*—"Bennie" played a consistently good brand of ball throughout the season and the team will feel his loss greatly next year.

JOSLIN, *Forward*—Joslin played center in great style and got far more than his share of tip-offs. He has another season to play.

RICHMOND, *Guard*—"Rich" finished his career on a Miner court by playing the best ball of his career. Another senior whose place will be hard to fill.

EVERETT, *Guard*—A newcomer to the ranks who played his first and last season this year and was a fine guard.



MINERS

MCGREGOR, *Forward*—"Jimmy" led the team in scoring and was one of the best forwards seen here in many years. He is a freshman and has three more years to see service.

MOONEY, *Forward*—Another freshman who came through in the pinches and who will be counted on to a large extent next season.

MCDONALD, *Guard*—"Jim," not being content with having been football captain, tried his first season of basketball and did exceptionally well. He will be lost to the squad next year.

WEHRMAN, *Center*—Al performed well. His fighting spirit will be missed next year.



SUMMARY OF GAMES

- January 7—Miners, 13; Springfield, 38. Showing a very poor defense and an exceptionally weak offense the Miners dropped the first tilt of the season to the Springfield Bears.
- January 11—Miners, 7; Cape Girardeau, 27. Spiritless playing and excellent competition caused the Miners to drop the second game to the Cape Teachers.
- January 13—Miners, 22; Tulsa, 44. Playing one of the best teams seen here in some seasons the Miners again met defeat.
- January 25—Miners, 15; Westminster, 44. A fast and clever Blue Jay team completely outplayed the Miners to make the count four defeats in as many starts.
- January 30—Miners, 22; William Jewell, 24. The fifth defeat was received in a close, hard fought game at Liberty.
- January 31—Miners, 17; Central, 35. Handicapped by a small gym and the loss of Captain Gross the Miners met defeat at the hands of the Central Eagles.
- February 7—Miners, 48; Drury, 21. Finally crashing into the win column, the Miners took a fast game from Drury on their home court.
- February 10—Miners, 21; Cape Girardeau, 25. In a close game the Cape team outplayed the Miners to furnish the seventh upset.
- February 13—Miners, 32; Springfield, 27. Before the largest crowd of the season the Miners played brilliant basketball to down the Bears in a close, exciting game.
- February 18—Miners, 16; St. Louis, 40. The fast St. Louis team proved to be too much for the Rolla basketweavers.
- February 24—Miners, 33; Westminster, 37. The Blue Jays administered the Miners another defeat in a thrilling game played on the home court.
- February 27—Miners, 25; Central, 27. Once again a game was lost by a very close margin as the Miners closed a disastrous season with a loss to the Eagles.



MINERS

WOMMACK, *Guard*—Another freshman reserve who did his bit in the pinches. "Mac" has three more years to play.

BEARD, *Forward*—A newcomer to the ranks of the Miners. He will be of much value for two more years.

The Season, 1932-33

BASKETBALL

Miner Quintet Loses 10 and Wins 2.

For the first time in several years the Miners failed to develop a winning basketball combination and were badly defeated throughout the season. The first few games were dropped by large scores, but as the season progressed the team improved and began putting up a great fight. The two games won were taken from Springfield in a home game and Drury was defeated.

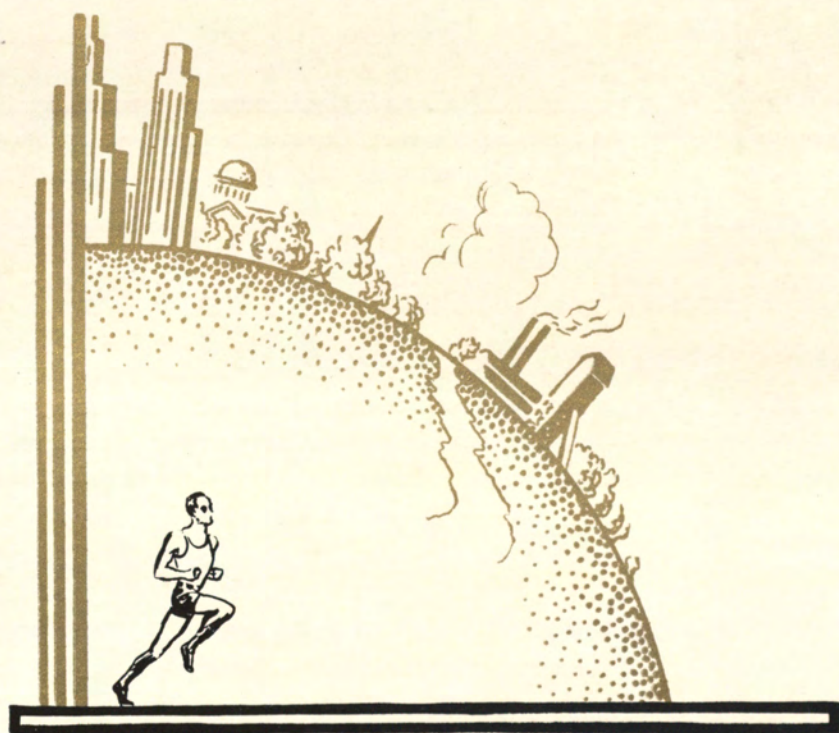
This season witnessed the loss of four of the mainstays of last year's team and their places were difficult to fill. With a nucleus of but three letter-men Coach Grant endeavored to build up a winning squad, but it was near the end of the season before the quintet really began to click.

Captain Gross played a good brand of basketball throughout the season as forward and Richmond and Everett at guards also showed up well. McGregor, a forward and a freshman with three more seasons of competition, led the squad in scoring. He will be invaluable during the next few years. Joslin, a veteran of last year, held down the center position in good style and Mooney, another freshman, showed up well.

Both Richmond and Everett at guards and Gross at forward will be lost to the squad next season, but there are several promising freshmen coming up and it is hoped that Kirchoff, a veteran guard of the past two years, will be eligible to play by that time. At the present, basketball prospects look rather weak, but with the material that will be on hand it is possible that Coach Grant will turn out a winning squad.

SCHEDULE

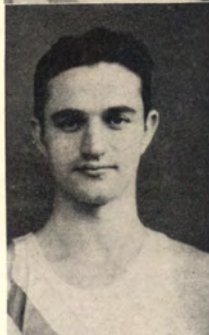
January 7—Miners, 13; Springfield Teachers, 38—at Springfield.
January 11—Miners, 7; Cape Girardeau, 27—at Cape Girardeau.
January 13—Miners, 22; Tulsa University, 44—in Rolla.
January 25—Miners, 15; Westminster, 44—at Fulton.
January 30—Miners, 22; William Jewell, 24—at Liberty.
January 31—Miners, 17; Central, 35—at Fayette.
February 7—Miners, 48; Drury, 21—in Rolla.
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February 21—Miners, 20; Drury, 40—at Springfield.
February 24—Miners, 33; Westminster, 37—in Rolla.
February 27—Miners, 25; Central, 27—in Rolla.



TRACK and TENNIS



MINERS



COGHILL (*Captain*)—A letter man for three successive seasons, and one of the most dependable men on the team. Bill did some fine running on the relay team and in the hurdles and dashes. He will be back next year.

MONROE—With the graduation of Rex Monroe, we see the finish of the track career of one of the greatest stars ever to wear the Silver and Gold. This year Rex turned more victories in his specialty, the half mile. He also contributed his part to the relay teams, running as anchor man.

SPOTTI (*Captain-elect*)—Spotti has earned his letter for two seasons, his race being the 440-yard dash. This year he captured several first places in the 440. He also served on the mile relay team. He will return to carry the colors again next year.

IRWIN—A great half miler. This year Walt set a new conference record of 1:59 for the half mile run. He ran on the mile relay team, and occasionally ran the 440-yard dash. Irwin has two more years of school, and we expect to see great things from him during these next two years.



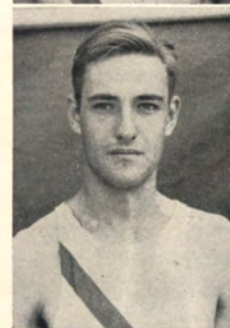
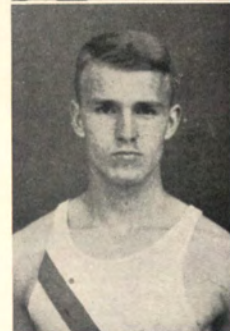
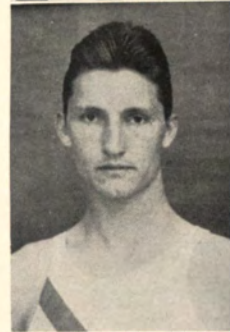
MINERS

NEEL—Billy didn't soar to such dizzy heights as did Dave Moulder in 1931, but he is a hard worker and proved to be a valuable man to the Miner team. Neel has three more years of school.

JENKINS—Jenks could be counted upon for points in every meet. He had his greatest success in throwing the discus, and won this event at the state meet. Jenks could also be counted upon for points in the shot put and the high jump. He will probably be back for the 1933 track season.

NICKEL—Another freshman dash man. Nick's specialty is the 100-yard dash, and he can step it off in fast time. He has three more years, and should be one of the point gainers on next year's team.

PFEIFFER—This tall boy from Iowa did some good running in the 440-yard dash and on the relay teams. He should score many points for the Miners in the next two years that he has to serve on the team.





MINERS

TOWSE—During this track season, Roy demonstrated that he could throw a javelin as well as he could throw a football. He scored points in nearly every meet. He missed breaking the school record by a matter of inches when he threw the shaft 164 feet, 10 inches, in the Miner-Drury meet. Roy will be back next year.

BROWN—A hard fighter who scored many points for the team in the mile and two-mile runs. Red will be back next year.

STOCKTON—Another Miner who worked hard. He tied for first with Brown in the Miner-Drury meet. Stockton will probably be here for the 1933 track season.

HOWERTON—A freshman who proved to be a real find. Dave runs a fast 220, and should do big things for the Miner track team during the next three years.

1932 Track Review

During the track season of 1932, Coach Grant developed a team which gave creditable account of itself in every meet of the season. The squad was not a large one, although the number of aspirants was somewhat increased over the number who reported for the 1931 squad. Four lettermen of the 1931 Silver and Gold track team reported at the start of the season, and around these men as a nucleus Coach Grant built a team which was able to score points in nearly every event.

The team was mediocre in some events, but what was lacking in ability was made up in spirit. All of the men on the squad gave the best they had and were in there fighting for points in every meet.

The team was especially strong in the middle distances and the relays. In the triangular meet between the Miners, Westminster, and Central Wesleyan, the Miners won both the one-half mile and the mile relays, setting new school records for these events. Monroe and Irwin, veteran Miner half milers, had another great season and turned in some splendid times for their event. In the M. C. A. U. meet Irwin set a new record for the half mile, running the distance in 1:59. The old record was held by Monroe of the Miners and was set in 1931. Monroe finished second to Irwin in the latter's record setting race. Irwin Spotti turned in several first places in the 440-yard dash, and placed in all the races he entered.

Howerton, Nickel, and Captain Coghill, made good showings in the dashes, and scored many points for the team.

Twelve men received letters; and of these, nine will probably return next year. With these men as a base, the Silver and Gold track team of 1933 should be exceptionally strong.

TRIANGULAR MEET

In the annual triangular meet between the Miners, Westminster, and Central Wesleyan, the Westminster Blue Jays were victorious for the sixth consecutive time.

Westminster amassed a total of 89 points to win the meet. The Miners were second with $49\frac{1}{2}$ points, and Central placed third with 15 points.

The Miners made a good all-around showing in the meet, with twelve men placing in the individual events, and also winning both relays. The time for the 880-yard relay was 1:32.5; and for the mile relay, 3:33.7. These are new school records.

Jenkins won the discus throw with a toss of 115 feet, 8 inches. Monroe easily won the half mile run, running the distance in 2:04 minutes, which was excellent time for such a slow track.

The following men placed in the meet:

- 220-yard low hurdles—Coghill, 2nd.
- 100-yard dash—Nickel, 2nd.
- 220-yard dash—Howerton, 2nd.
- Broad jump—Miller, 3rd.
- Discus throw—Jenkins, 1st; Vogel, 2nd.
- Pole vault—Neel, 3rd.
- Mile run—Stockton, 3rd.
- 880-yard run—Monroe, 1st.
- Javelin throw—Towse, 2nd.
- 440-yard dash—Spotti, 3rd.
- 120-yard high hurdles—Wehrman, 3rd.

MINERS VS. SPRINGFIELD TEACHERS

The Springfield Teachers defeated the Miners, 89 to 47. The Miners captured four first places and tied for another. Howerton, Miner freshman, ran a nice race to take first in the 220-yard dash. Irwin Spotti won the 440-yard dash. Monroe tied for first in the half mile run with Killion of the Teachers. The Miner relay teams won both of their events with comparative ease.

Maze, of the Springfield Teachers, was the high point man of the meet, taking three first places for a total of 15 points. Killion, also of the Teachers, had two firsts and a tie for first to his credit for a total of 14 points.

Summary of events:

- 100-yard dash—Hillhouse, Teachers, 1st; Nickel, Miners, 2nd; Livingston, Teachers, 3rd. Time, :10.4.
- 220-yard dash—Howerton, Miners, 1st; Hillhouse, Teachers, 2nd; Livingston, Teachers, 3rd. Time, :23.3.
- 440-yard dash—Spotti, Miners, 1st; Knott, Teachers, 2nd; Pfeiffer, Miners, 3rd. Time, :52.3.
- 880-yard dash—Monroe, Miners, and Killion, Teachers, tied for first; Irwin, Miners, 3rd. Time, 2:1.3.
- Mile run—Killion, Teachers, 1st; Henson, Teachers, 2nd; Brown, Miners, 3rd. Time, 4:35.1.
- Two-mile run—Killion, Teachers, 1st; Davis, Teachers, 2nd; Brown, Miners, 3rd. Time, 10:33.
- 220-yard low hurdles—Calloway, Teachers, 1st; Coghill, Miners, 2nd; Sanders, Teachers, 3rd. Time, :27.
- 120-yard high hurdles—Sanders, Teachers, 1st; Calloway, Teachers, 2nd; Wehrman, Miners, 3rd; Time, :16.4.
- One-half mile relay—Miners, 1st; Teachers, 2nd. Time, 1:33.4.
- Mile relay—Miners, 1st; Teachers, 2nd. Time, 3:33.6.
- Broad jump—Calloway, Teachers, 1st; Miller, Miners, 2nd; Adams, Teachers, 3rd. Distance 19 feet, $6\frac{1}{2}$ inches.

MINERS

High jump—Adams, Teachers, 1st; Sanders, Teachers, 2nd; Weigle, Miners, 3rd. Height, 5 feet, 8 inches.
 Pole vault—Maze, Teachers, 1st; Newton, Teachers, 2nd; Neel, Miners, 3rd. Height, 10 feet, 7 inches.
 Discus throw—Maze, Teachers, 1st; Jenkins, Miners, 2nd; Grant, Teachers, 3rd. Distance, 122 feet, 8 inches.
 Javelin throw—Maze, Teachers, 1st; Parker, Teachers, 2nd; Towse, Miners, 3rd. Distance, 174 feet, 4½ inches.
 Shot put—Grant, Teachers, 1st; Adams, Teachers, 2nd; Jenkins, Miners, 3rd. Distance, 38 feet, ½ inch.

MINERS VS. DRURY

The Miners decisively defeated the Drury track team by a score of 81 to 54. The Miners captured nine first places, including both relays. Monroe won the half mile in the fast time of 2:01.6. Irwin of the Miners placed second, finishing a short distance behind Monroe. Spotti and Pfeiffer had little trouble in placing first and second in the 440-yard dash.

Robb and Ray, Drury stars, accounted for 29 of their team's 54 points. Robb, who holds the conference record for the 100-yard dash, won that event with comparative ease, doing the distance in 9:9. Robb also placed first in the 220-yard dash and the broad jump. Ray took first places in the discus throw and the shot put. He also tied for first in the broad jump.

Summary of events:

100-yard dash—Robb, Drury, 1st; Nickel, Miners, 2nd; Spotti, Miners, 3rd. Time, :9.9.
 220-yard dash—Robb, Drury, 1st; Howerton, Miners, 2nd; Coghill, Miners, 3rd. Time, :22.5.
 440-yard dash—Pfeiffer, Miners, 1st; Spotti, Miners, 2nd; Wakeman, Drury, 3rd. Time, :53.
 880-yard dash—Monroe, Miners, 1st; Irwin, Miners, 2nd; Haymes, Drury, 3rd. Time, 2:01.6.
 Mile run—Brown, Miners, 1st; Stockton, Miners, 2nd. Time, 5:08.2.
 Two-mile run—Brown, Miners, 1st; Bennett, Miners, 2nd; Hawkins, Drury, 3rd. Time, 11:14.7.
 220-yard low hurdles—Coghill, Miners, 1st; Nickel, Miners, 2nd; Acker, Drury, 3rd. Time, :26.8.
 120-yard high hurdles—Acker, Drury, 1st; Miller, Drury, 2nd; Weigel, Miners, 3rd. Time, :16.2.
 One-half mile relay—Miners, 1st; Drury, 2nd. Time, 1:32.6.
 Mile relay—Miners, 1st; Drury, 2nd. Time, 3:37.5.
 Broad jump—Robb, Drury, 1st; Miller, Miners, 2nd; Magyar, Miners, 3rd. Distance, 21 feet, 1 inch.
 High jump—Ray, Drury, and Golden, Drury, tied for first; Jenkins, Miners, 3rd. Height, 5 feet, 9 inches.
 Pole vault—Neel, Miners, 1st; Celwix, Drury, and Johnson, Miners, tied for second. Height, 9 feet, 6 inches.
 Discus throw—Ray, Drury, 1st; Jenkins, Miners, 2nd; Decker, Drury, 3rd. Distance, 125 feet, 5½ inches.
 Javelin throw—Towse, Miners, 1st; Acker, Drury, 2nd; Friedman, Miners, 3rd. Distance, 164 feet, 10 inches.
 Shot put—Ray, Drury, 1st; Wakeman, Drury, 2nd; Jenkins, Miners, 3rd. Distance, 36 feet, 6¼ inches.

STATE MEET

The Westminster Blue Jays, presenting a team equally strong in both track and field events, had little trouble in winning the State meet at Columbia. The Miners placed second, with William Jewell third, and Culver-Stockton fourth.

MINERS

Westminster scored 51 points to win the meet. The Miners scored 30½ points, taking three first places. Jenkins won the discus throw with a toss of 125 feet, 9¼ inches. The Miners hung up a new record in the half mile run. The race was a thrilling duel between Irwin and Monroe, the two great Miner half milers, with Irwin beating his teammate to the tape by a scant margin. Irwin's time was 1:59, and is a new conference record. The Miner mile relay team won their event in the fast time of 3:27.6, which is very close to the record time. The half mile relay team placed second; Westminster's team winning the race in the record time of 1:31.

Two Miner freshmen showed up exceedingly well in this meet. Nickel placed third in the 100-yard dash, and Howerton ran a splendid race to place second in the 220-yard dash. Altogether the team made an excellent showing in the meet.

Summary of events:

- 100-yard dash—Robb, Drury, 1st; Browning, Tarkio; 2nd; Nickel, Miners, 3rd; Thompson, Westminster, 4th. Time, :10.1.
- 220-yard dash—Robb, Drury, 1st; Howerton, Miners, 2nd; Browning, Tarkio, 3rd; Winn, Culver-Stockton, 4th. Time, :21.8.
- 440-yard dash—Bell, Westminster, 1st; Dammel, William Jewell, 2nd; Spotti, Miners, 3rd; Edmonds, Westminster, 4th. Time, :50.4.
- 880-yard run—Irwin, Miners, 1st; Monroe, Miners, 2nd; Pevestoroff, Westminster, 3rd; Page, William Jewell, 4th. Time, 1:59. New conference record.
- Mile run—Toney, Westminster, 1st; Mertz, William Jewell, 2nd; Bullington, Central, 3rd; Stoneman, Central, 4th. Time, 4:36.5.
- Two-mile run—Mertz, William Jewell, 1st; Buck, Culver-Stockton, 2nd; Ware, Central, 3rd; Thornton, Culver-Stockton, 4th. Time, 10.08.
- 120-yard high hurdles—Steele, Missouri Valley, 1st; Acker, Drury, 2nd; Moore, Culver-Stockton, 3rd; Grant, William Jewell, 4th. Time, :16.
- 220-yard low hurdles—Thompson, Westminster, 1st; Steele, Missouri Valley, 2nd; Dunkin, Westminster, 3rd; Grant, William Jewell, 4th. Time, :26.4.
- 880-yard relay, Westminster (Wagner, Edmonds, Bell, Thompson), 1st; Miners, 2nd; Tarkio, 3rd; Central, 4th. Time, 1.31. New conference record.
- Mile relay—Miners (Coghill, Pfeiffer, Irwin, Monroe), 1st; Westminster, 2nd; William Jewell, 3rd; Culver-Stockton, 4th. Time, 3:27.6.
- Discus throw—Jenkins, Miners, 1st; Ray, Drury, 2nd; Goodson, Missouri Valley, 3rd; Meals, Missouri Valley, 4th. Distance, 125 feet, 9¼ inches.
- Shot put—Morrow, Westminster, 1st; Hollis, Culver-Stockton, 2nd; Sharp, Westminster, 3rd; Tracy, William Jewell, 4th. Distance, 47 feet, 2 inches.
- Pole vault—Yantis, Westminster, 1st; Grant, William Jewell, 2nd; Patterson, Westminster, 3rd; Garrison, Culver-Stockton, 4th. Height, 12 feet.
- High jump—Maul William Jewell, 1st; Garrison, Culver-Stockton, 2nd; Jones, Westminster, 3rd; Jenkins, Miners and Golden, Drury, tie for fourth. Height, 6 feet, 1¼ inches.
- Javelin throw—Dunkin, Westminster, 1st; Chiles, Central, 2nd; Towse, Miners, 3rd; Billings, William Jewell, 4th. Distance, 189 feet, 10¼ inches. New conference record.
- Broad jump—Browning, Tarkio, 1st; Daugherty, Missouri Valley, 2nd; Garrison, Culver-Stockton, 3rd; Perry, Westminster, 4th. Distance, 21 feet, 5 inches.

Tennis Survey, 1932

With the amendment to the Athletic Association constitution, making tennis a recognized minor sport, came the M. S. M. Tennis Club, Lt. Hardin and W. H. Lenz were instrumental in the organizing of the tennis players. Earl Mertz is president, and R. Schuhmann is secretary-treasurer.

Lenz, Mertz, Schuchmann, Thoroughman, and Schuhmann compose the squad.

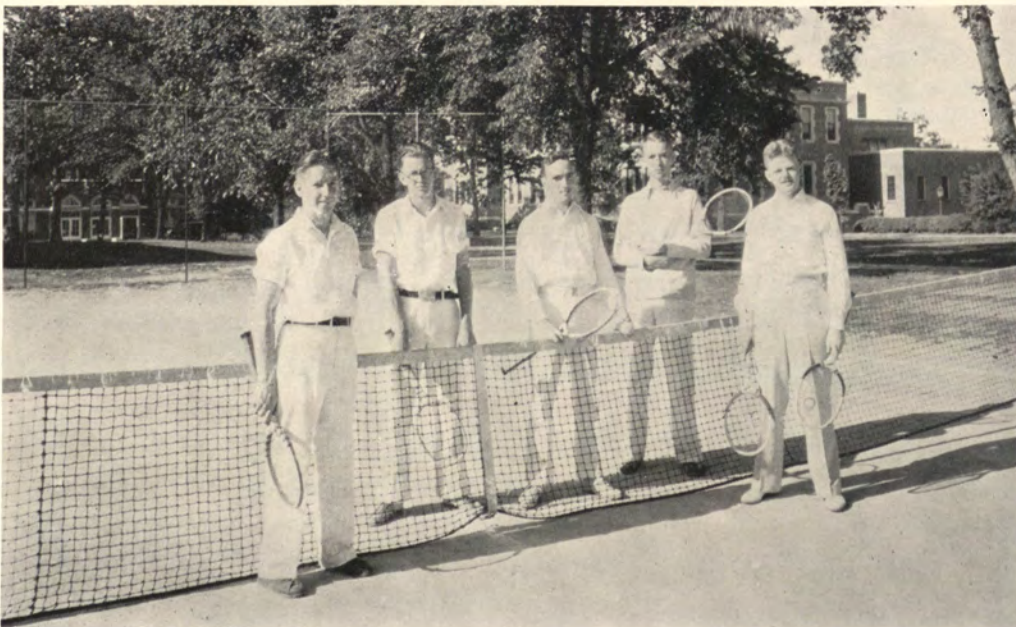
WESTMINSTER VS. M. S. M.

For the first meet of the year, the racket stars from Fulton visited Rolla on April 23. Six matches were played, the score being: Westminster, 4; Miners, 2. Lenz defeated Schott, 6-4, 6-3. Schuchmann lost the first set of his match to Hightower of Westminster, but came back strong to win the match, 5-7, 6-2, 6-2. Humphreys won from Mertz (M. S. M.), 6-4, 6-2. Vaughn of Westminster downed Thoroughman, 7-5, 6-1. The Miners lost both doubles matches: Vaughn and Schott defeated Mertz and Lenz, 1-6, 7-5, 12-10; Hightower and Humphreys won from Thoroughman and Schuhmann, 6-3, 8-6.

MINERS VS. SPRINGFIELD TEACHERS

On April 27th, the tennis team accompanied the Miner track team to Springfield, and engaged the S. T. C. men in a series of tennis matches. The Miners won four out of seven matches, thus winning the meet. The scores follow:

Caughran (S. T. C.) defeated Lenz (M. S. M.), 6-1, 6-3.
 Lucas won over Thoroughman (M. S. M.), 6-3, 9-7.
 Schuhmann defeated Hitchcock (S. T. C.), 6-3, 3-6, 6-2.
 Schuchmann defeated Rosier (S. T. C.), 4-6, 6-3, 7-5.
 Mertz gained a victory over Carter (S. T. C.), 2-6, 6-4, 6-2.



MINERS

In the doubles:

Lenz and Thoroughman (M. S. M.) defeated Lucas and Hitchcock, 6-2, 9-7.
Caughran and Rosier (S. T. C.) defeated Schuhmann and Schuchmann,
6-4, 7-5.

MINERS VS. WESTMINSTER

On Tuesday, May 3, the M. S. M. tennis team met the "Blue Jays" of Westminster on the courts at Fulton. The Miners won only one match out of six, the play being marred by a very high wind, with bad courts helping to disconcert the visitors. Scores in the singles follow:

Lenz defeated Schott, No. 1 of Westminster, 6-1, 6-1.
Vaughn won over Schuchmann, No. 2 for M. S. M., 6-2, 6-3.
Humphreys defeated Schuhmann (M. S. M.), 6-1, 6-3.
Durham won over Mertz (M. S. M.) in three sets, 6-4, 2-6, 7-5; Mertz
was handicapped by a sprained ankle.

In the doubles:

Schott and Vaughn defeated Lenz and Mertz, 6-1, 6-3.
Humphreys and Durham defeated Schuchmann and Schuhmann, 6-3, 7-5.

M. C. A. U. TOURNAMENT

The M. C. A. U. tournament took place on Thursday and Friday, May 12 and 13. Schuhmann and Lenz accompanied the golf team to Columbia the night before the tournament started, and were lodged at the Lambda Chi house there. Due to disturbances throughout the night the tennis players slept only several hours.

The tournament started at 9 a. m. Thursday. Lenz, representing the Miners in the singles, drew a bye for the first round. He met McCorkle of Central College in the second (and semi-final) round of the tournament, and, after winning the first set handily at 6-3, he lost the next two sets at 1-6, 4-6, mainly due to physical exhaustion. McCorkle went to the finals, but lost in three sets to Stevenson of Tarkio.

In the doubles, Schuhmann and Lenz, representing the Miners, faced the defending doubles champions in the first round. After a hard fight the Tarkio team won by scores of 10-8, and 6-3. The Tarkio team, however, lost to McCorkle and Hackley of Central, 4-6, 7-5, 6-2, in the finals.





OFFUTT, SEIBERLING, GROSS, POWER

Golf

Miners Place Third in Conference

In its second year of Inter-Collegiate competition the Miner golf team played four matches, losing two and winning a pair.

A match was played with Drury at Springfield and the Miners decisively defeated their old rivals. In the return match on the home course again the golfers took the measure of Drury to prove their superiority.

Two matches were played against Westminster, one at Fulton and one on the home course. Both of these matches were lost by rather close scores.

The team, composed of Gross, Power, Matzik, Offutt, and Seiberling, entered the conference meet at the Columbia Country Club at Columbia, Missouri, and emerged with third place cinched. In the morning round the Miners found the going difficult due to a soggy course which caused many of the shots to be short. In the afternoon round, however, the golfers came back strong and placed up among the leaders. It was the first time the team has entered the state meet and the showing that it made was excellent considering the strenuous competition.



SWIMMING INTRAMURAL





SWIMMING SQUAD

Swimming

1932-33

Although this year was only the second for the Miners' Tanksters they took on a heavy intercollegiate schedule and weathered a long and strenuous training season as well as could be desired. The opponents, for the most part, were strong and established teams.

The season started without a coach and the responsibilities of coaching fell upon the captain, Bill Kay.

The season opened with a dual meet with the Westminster merman. The Miners defeated the Blue Jays, 45-30. The following week Kemper Military Academy reversed the score winning the meet, 45-30.

Westminster came to Rolla determined to overcome the Miners. Yantis of the Blue Jays performed wonderfully and without him the Blue Jays would not have nosed out Rolla by a margin of 39-36. Next the Miners met The Principia College team in St. Louis and equaled last year's score. The score was 50-25 in favor of Principia.

The Miners closed their aquatic season by competing against two strong teams. On Friday evening, March 10th, the Miners encountered St. Louis U. at the St. Louis pool. The final score was 45-30 in favor of St. Louis. Saturday evening Rolla met the Washington Bears at Wilson Pool. This was the first time that the Miners swam intercollegiate distances, which are much greater than ordinary interscholastic distances. Knoll and Kay swam the 440-yard grind for the first time. The final score was 70-14 in favor of Washington.

The letter men on the squad were: Captain Bill Kay, who led the dashes and performed in the relays; Bob Weigel, again high-point man and outstanding for his work in the breast stroke; Rose, dash man; Gettier, dash man; Bright, a good distance man; Knoll, a good man in the breast stroke; Borgstede, distance man and backstroker; Badame, backstroker; Brown, diver; other man on the squad were Kruse and Book.

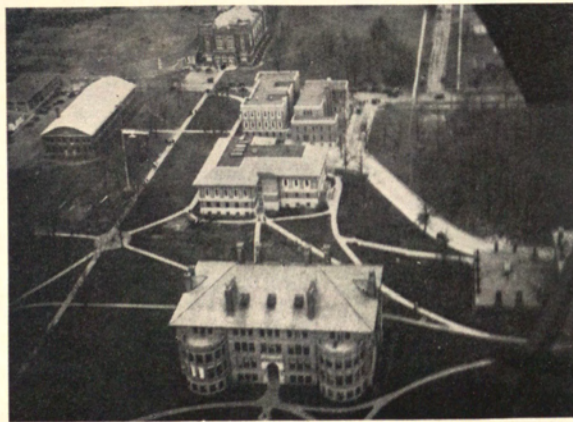


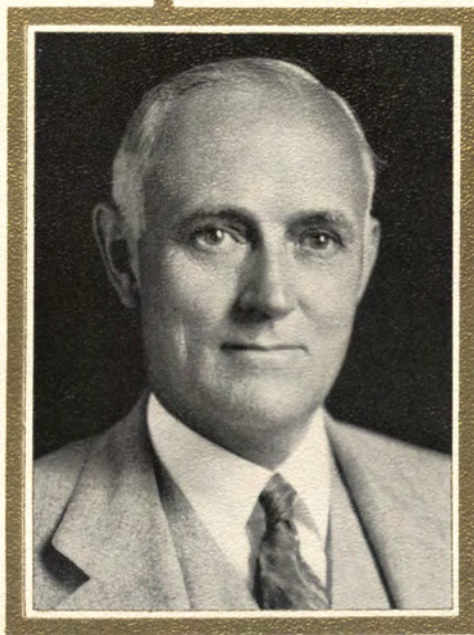
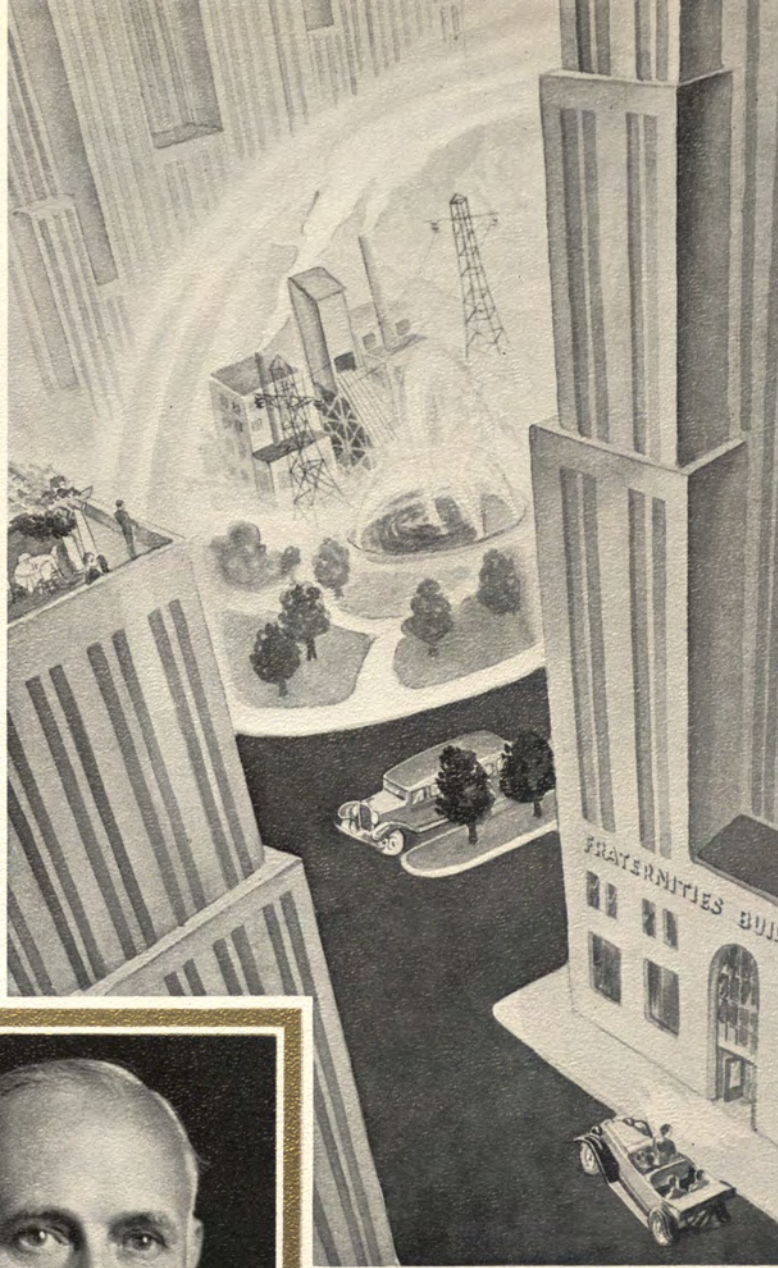
Intramural Baseball 1932

The Independent A team won the baseball cup this year. The Lambda Chi Alpha's were a close second. The league consisted of the Independent A, Lambda Chi Alpha, Pi Kappa Alpha, Bonanza, Kappa Alpha, Kappa Sigma, Mercier, Sigma Nu, Prospector, Triangle, and Independent B Teams.

LEAGUE STANDING

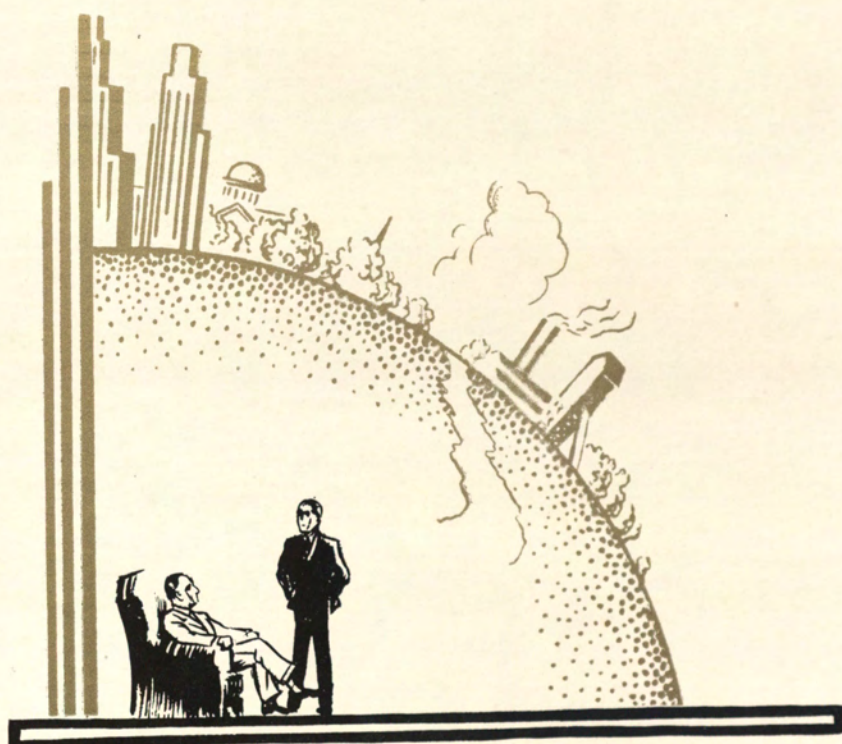
	Won	Lost	Per Cent
Independent A	8	1	0.889
Lambda Chi Alpha.....	8	2	0.800
Prospector	7	3	0.700
Independent B.....	6	3	0.667
Mercier	6	4	0.600
Pi Kappa Alpha.....	5	5	0.500
Bonanza	4	6	0.400
Sigma Nu	3	6	0.333
Triangle	3	7	0.300
Kappa Sigma	2	7	0.222
Kappa Alpha.....	0	8	0.000





ORGANIZATIONS

G. A. Easley



SOCIAL FRATERNITIES



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SIGMA NU

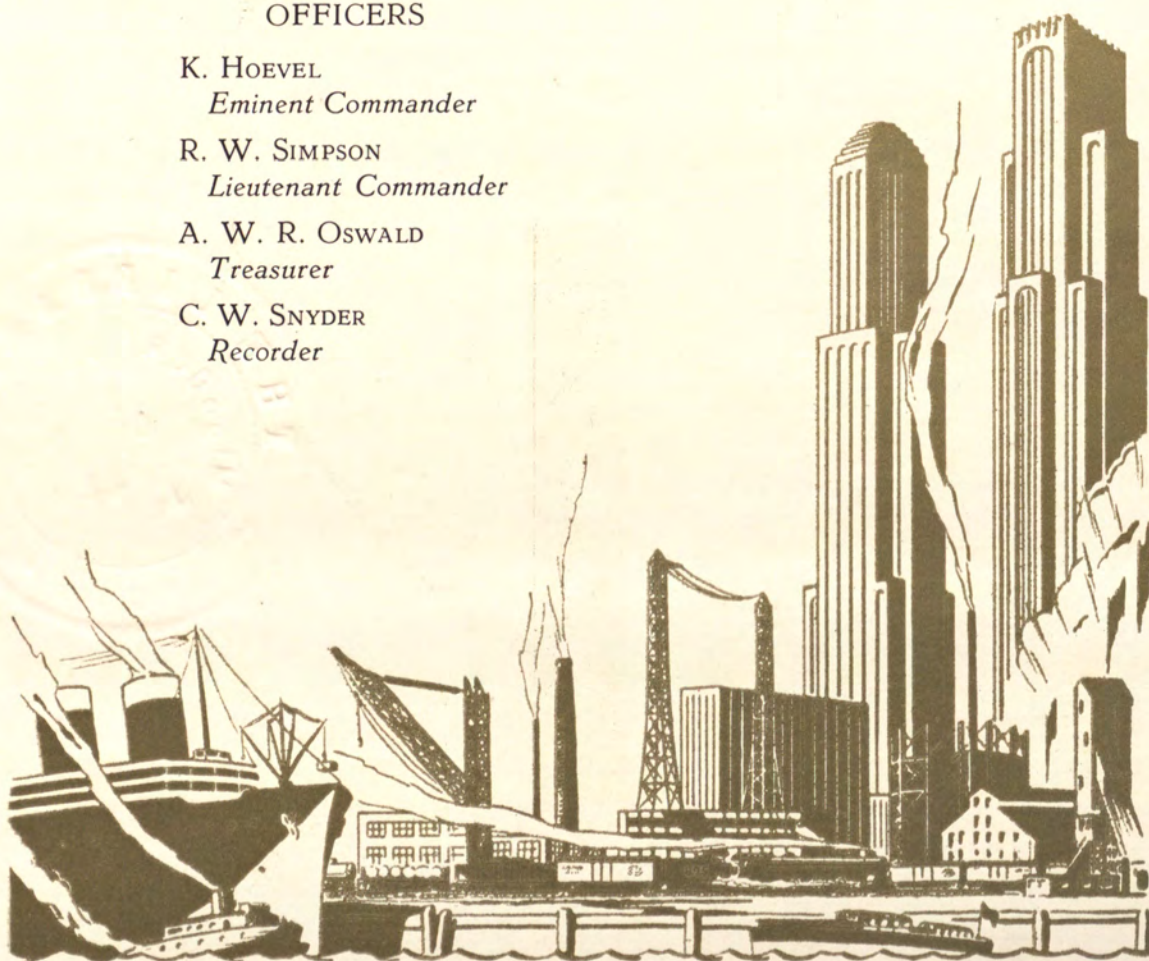


Founded at Virginia Military Institute, January 1, 1869. Gamma XI Chapter, Missouri School of Mines and Metallurgy. Installed January 1, 1903.



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K. HOEVEL
Eminent Commander
R. W. SIMPSON
Lieutenant Commander
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Treasurer
C. W. SNYDER
Recorder



GAMMA XI OF SIGMA NU



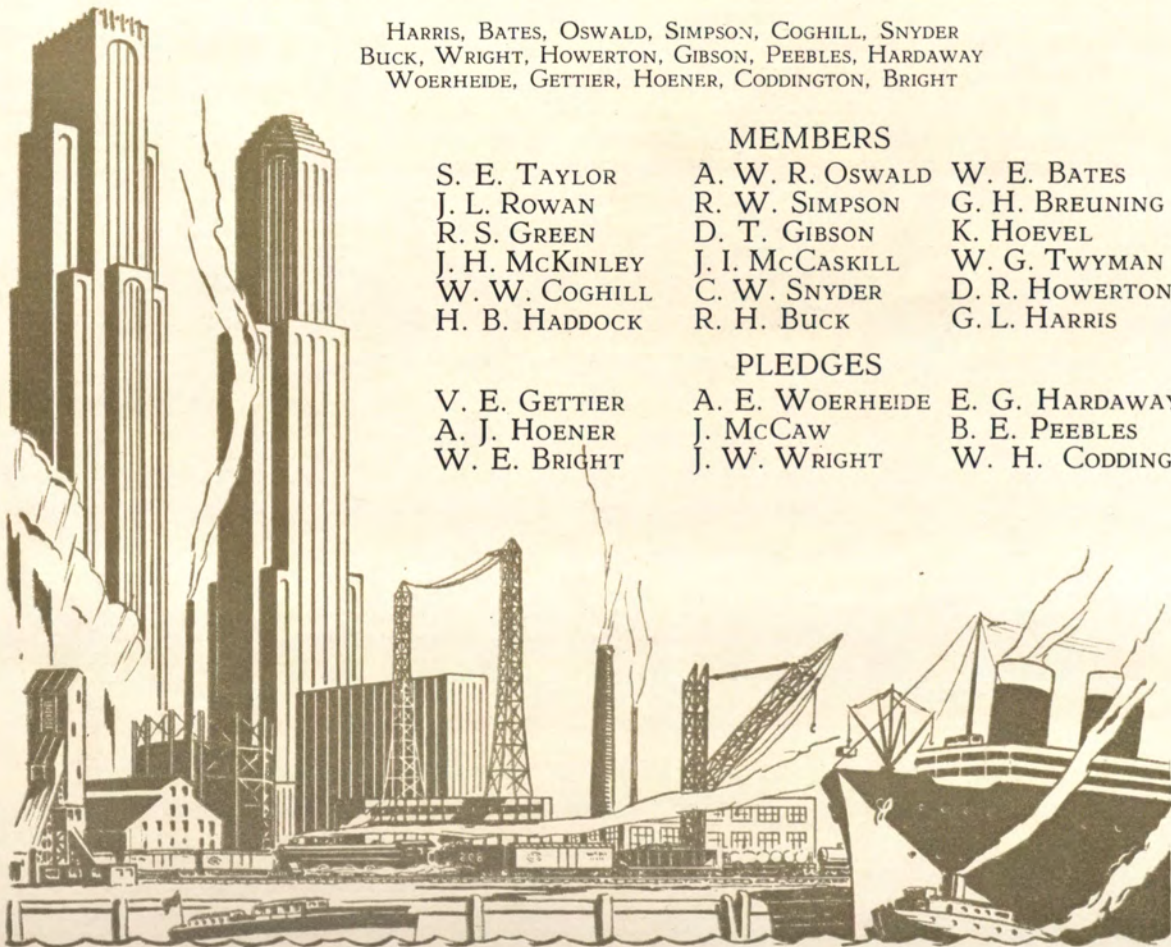
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W. E. BRIGHT	J. W. WRIGHT	W. H. CODDINGTON



KAPPA ALPHA



Kappa Alpha was founded at Washington College, now Washington and Lee University, December 21, 1865. Beta Alpha Chapter was installed at the Missouri School of Mines, April 27, 1903.



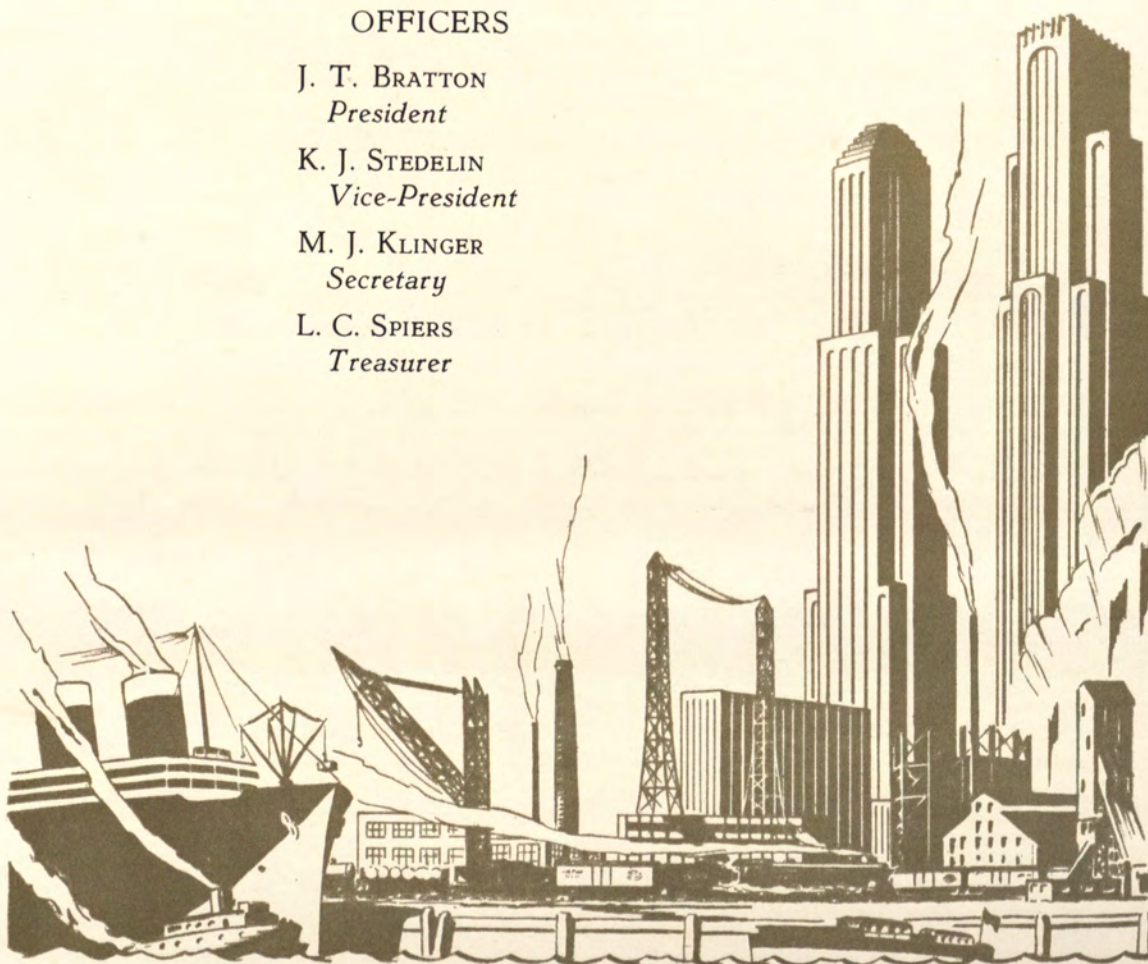
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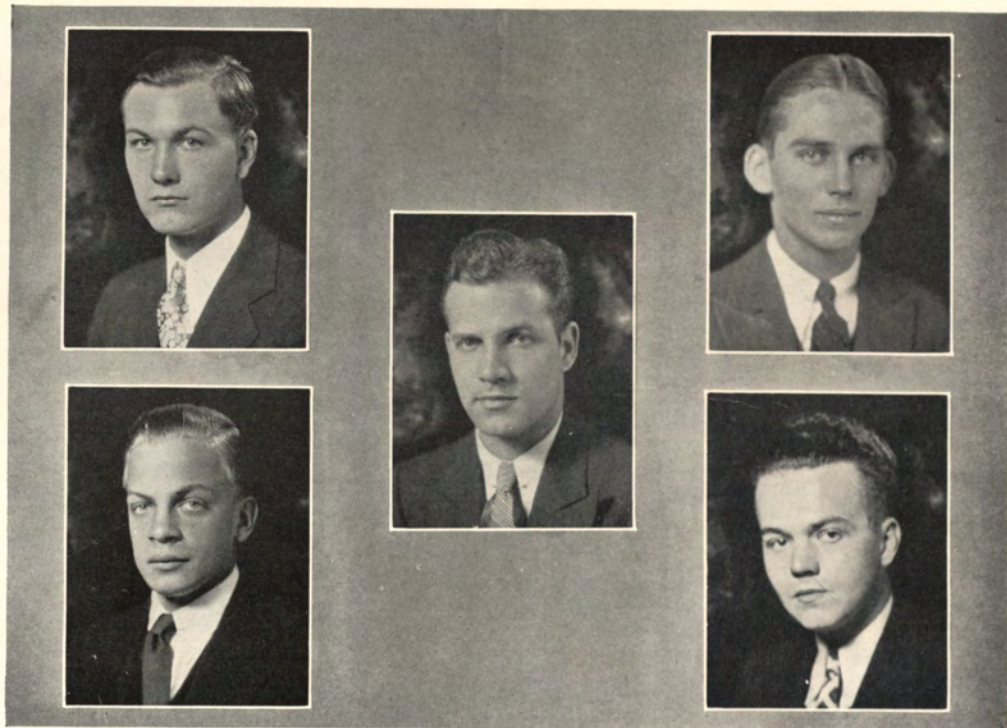
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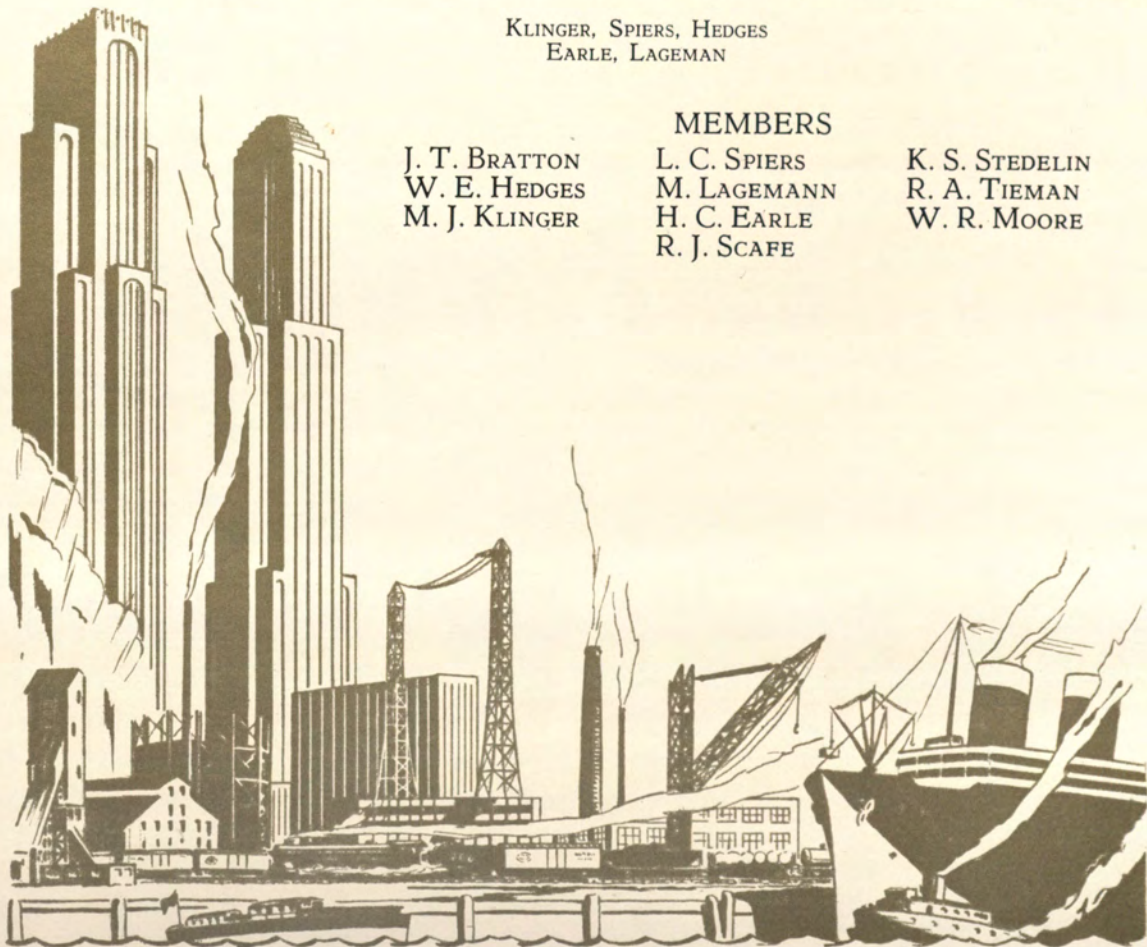
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R. A. TIEMAN
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KAPPA SIGMA



Founded at the University of Virginia, December 10, 1869. Beta Chi Chapter installed at the Missouri School of Mines, November 5, 1903.



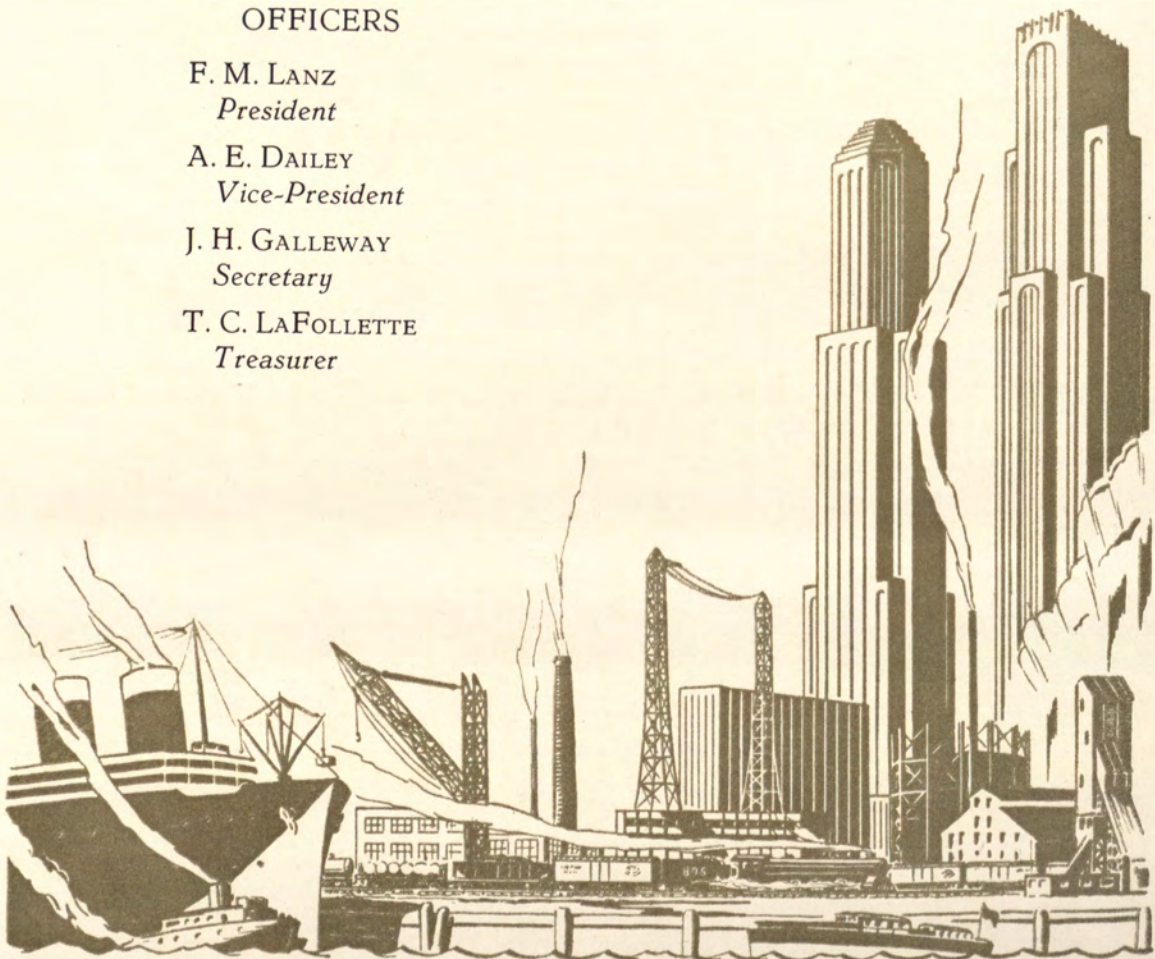
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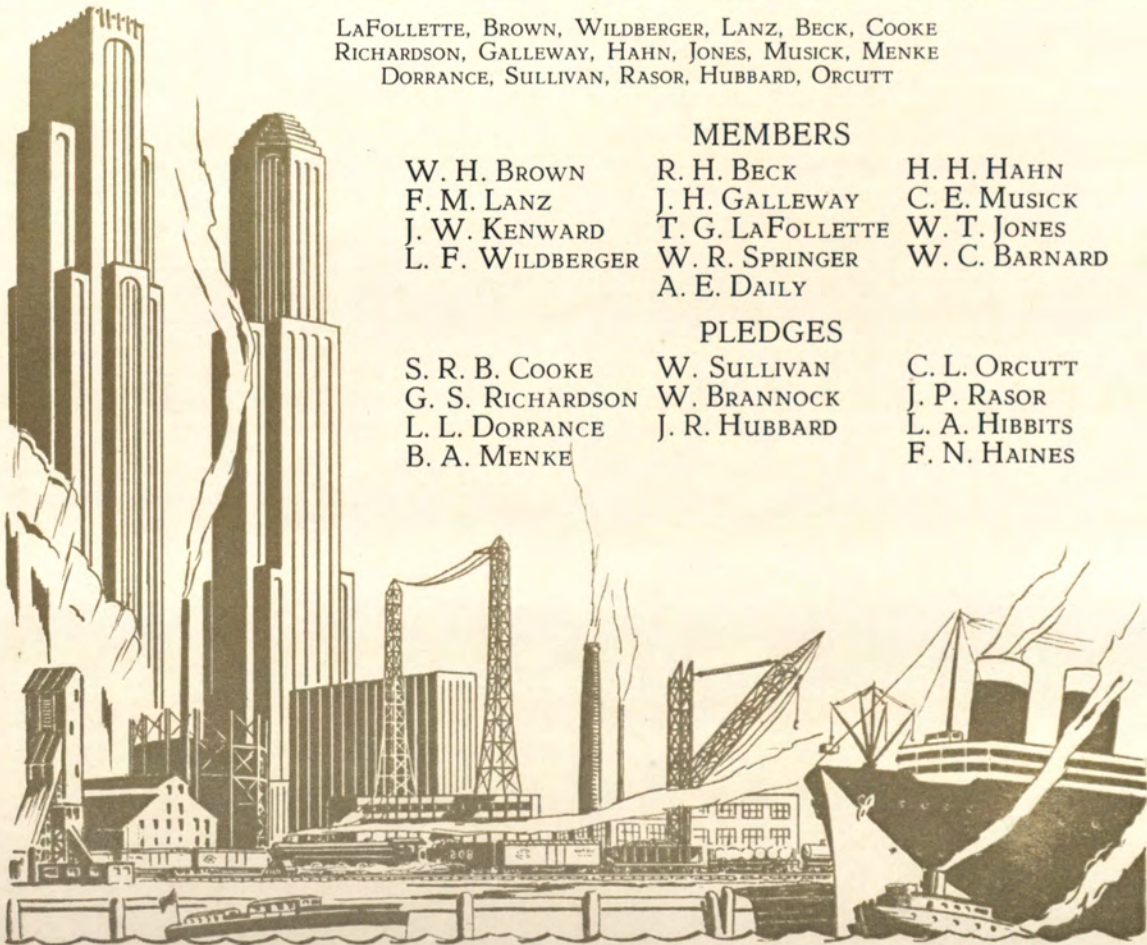
LaFollette, Brown, Wildberger, Lanz, Beck, Cooke
Richardson, Galleway, Hahn, Jones, Musick, Menke
Dorrance, Sullivan, Rasor, Hubbard, Orcutt

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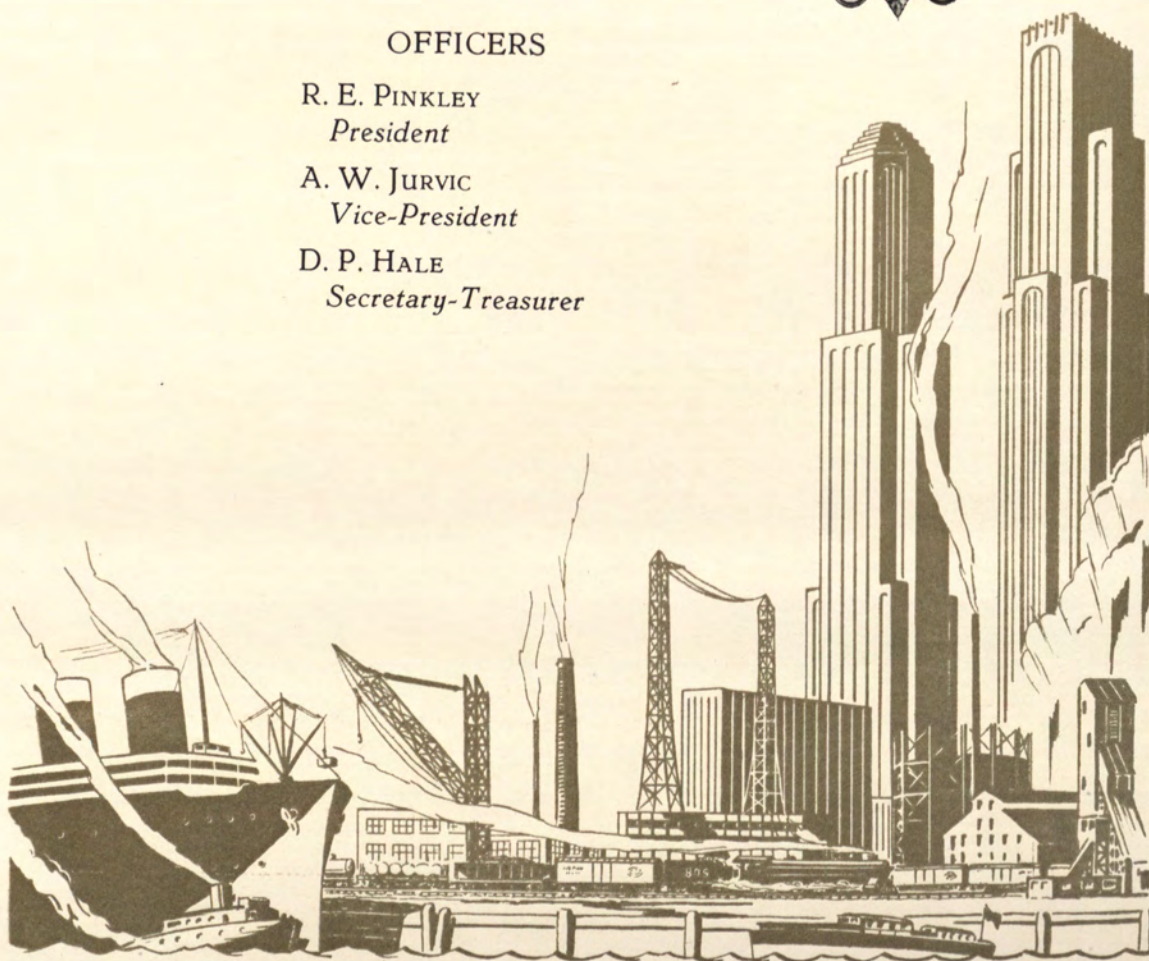


Founded at University of
Virginia, March 1, 1868.
Alpha Kappa Chapter in-
stalled December 2, 1905.



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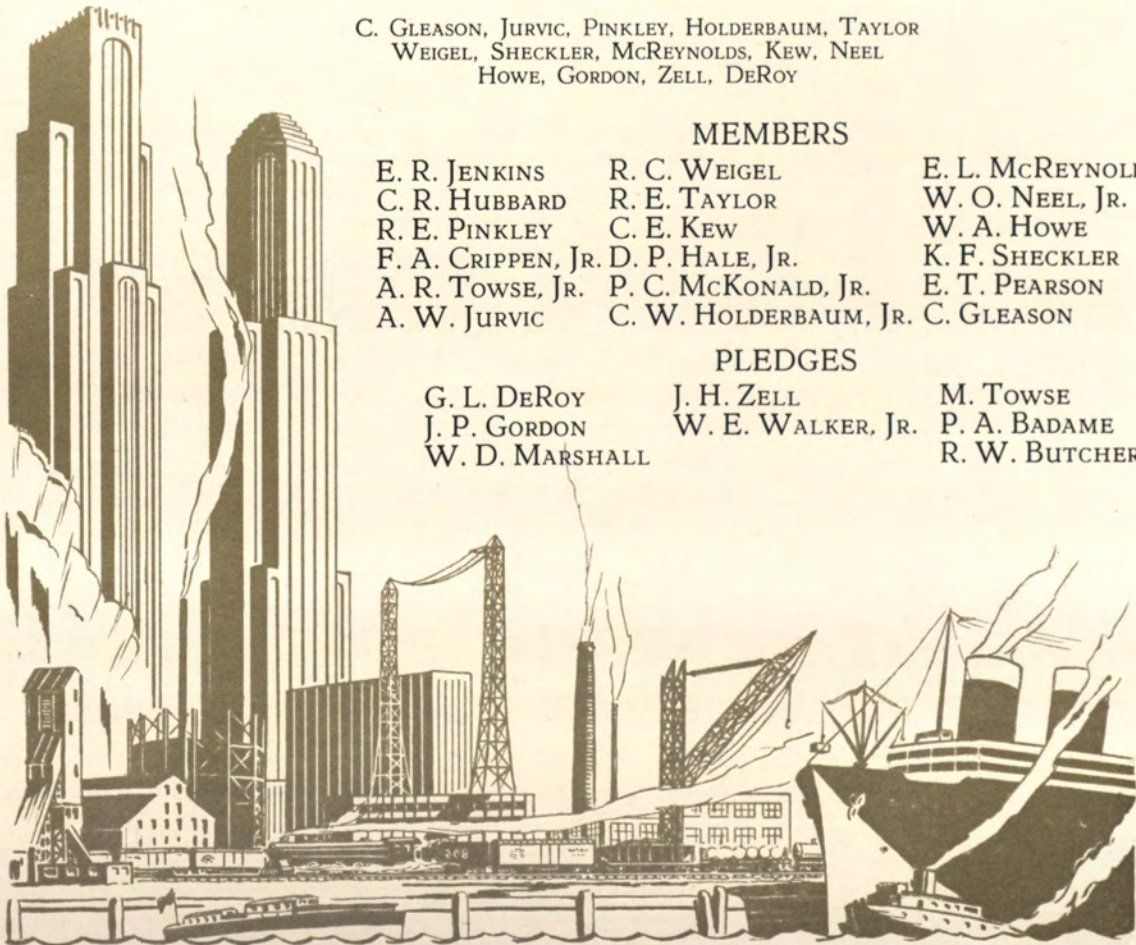
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PROSPECTOR CLUB



Founded October 1, 1913,
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Mines. Incorporated un-
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State of Missouri, 1922.



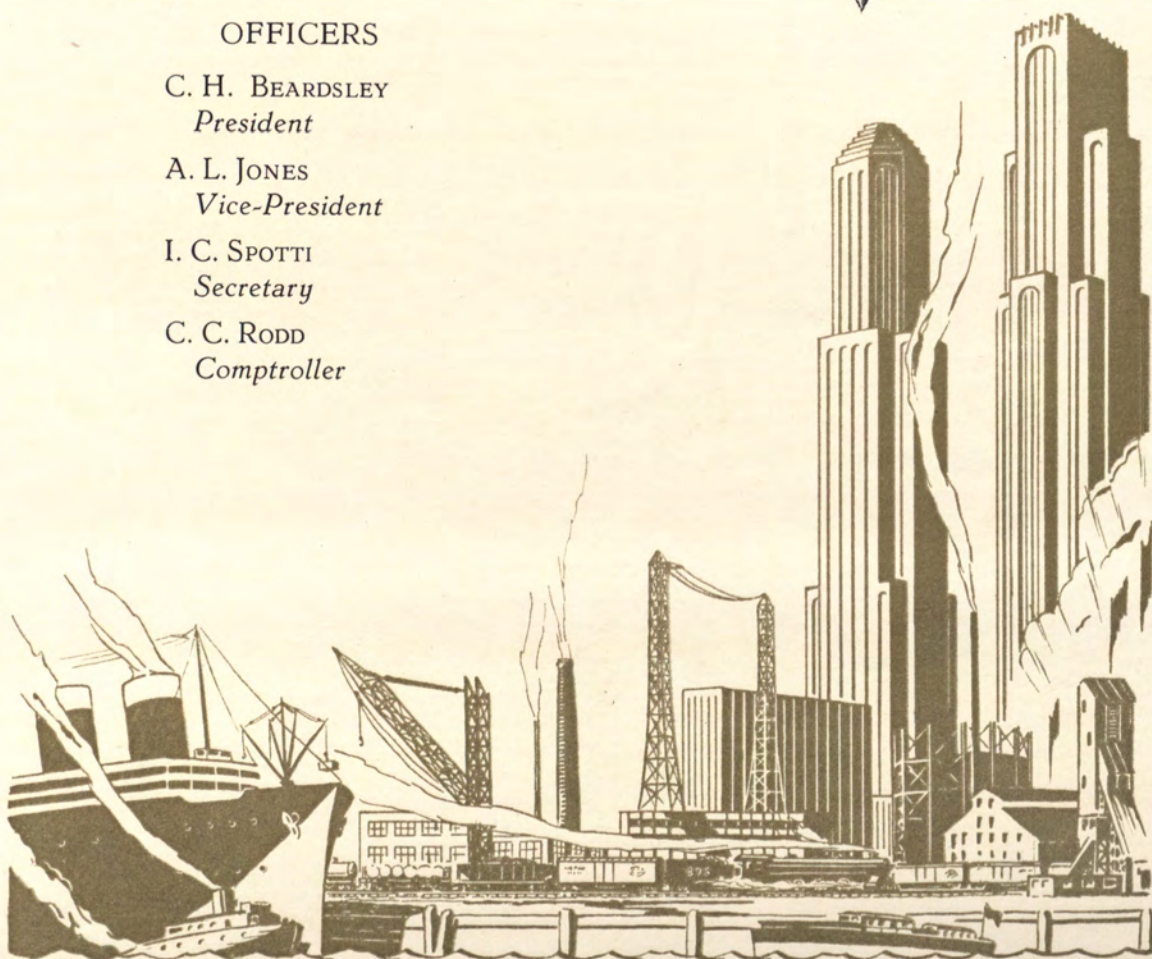
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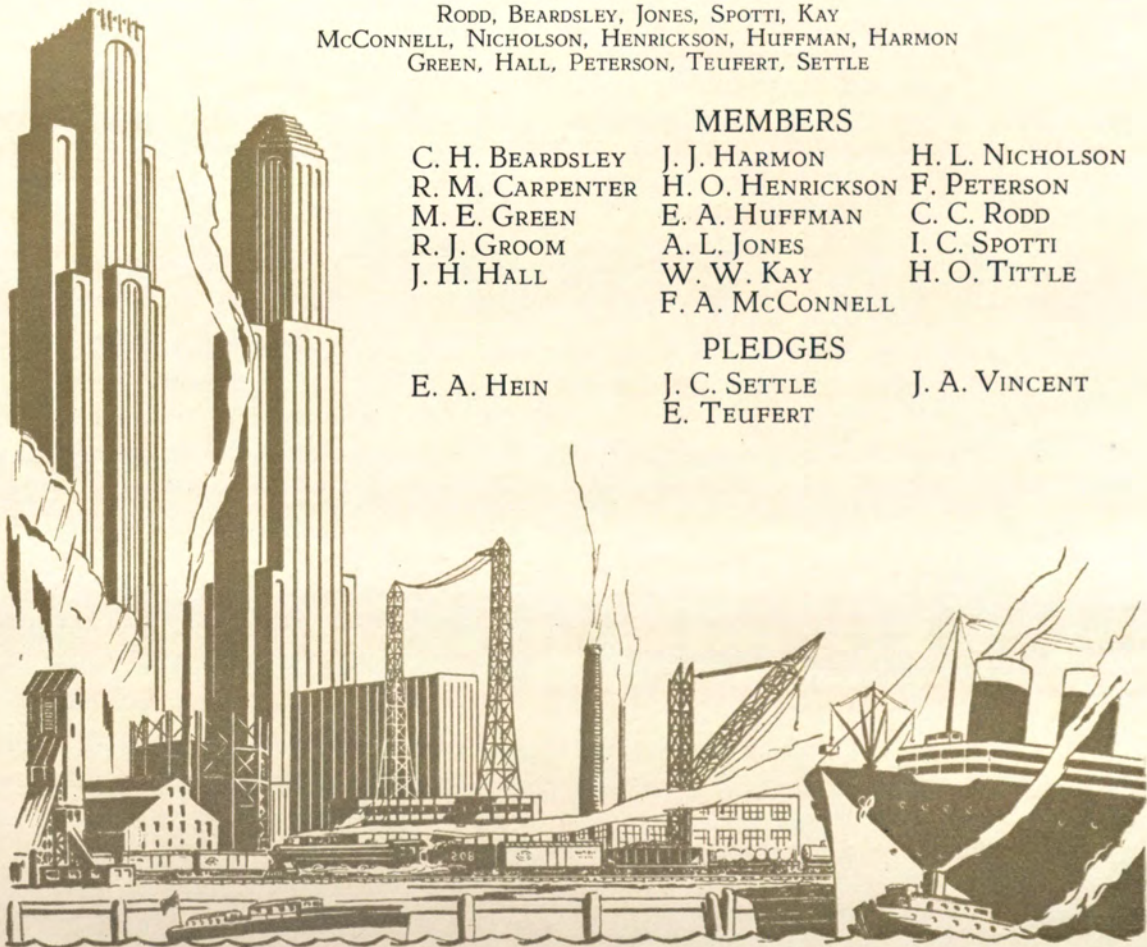
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Founded at Boston University, November 2, 1909. Alpha Delta Theta Chapter installed at the Missouri School of Mines and Metallurgy, April 17, 1917.



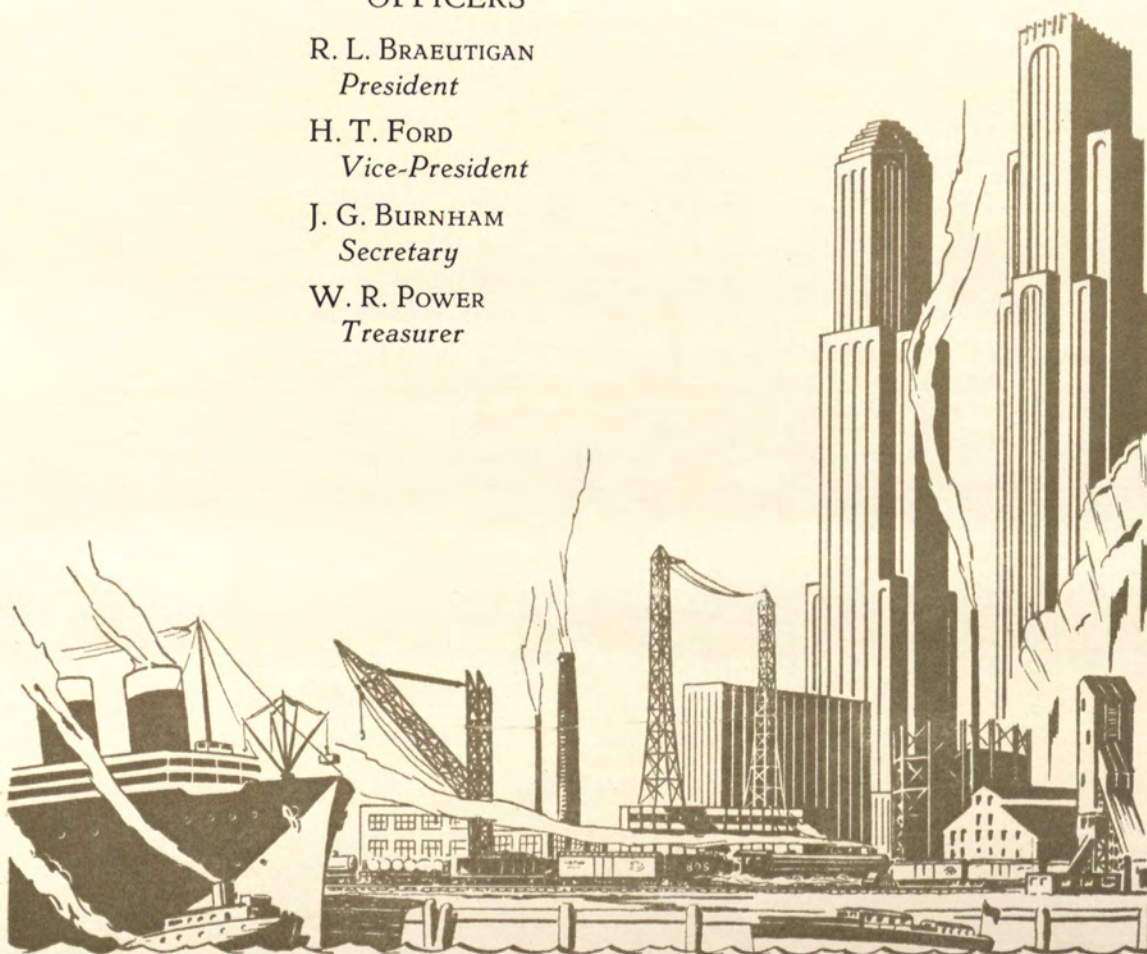
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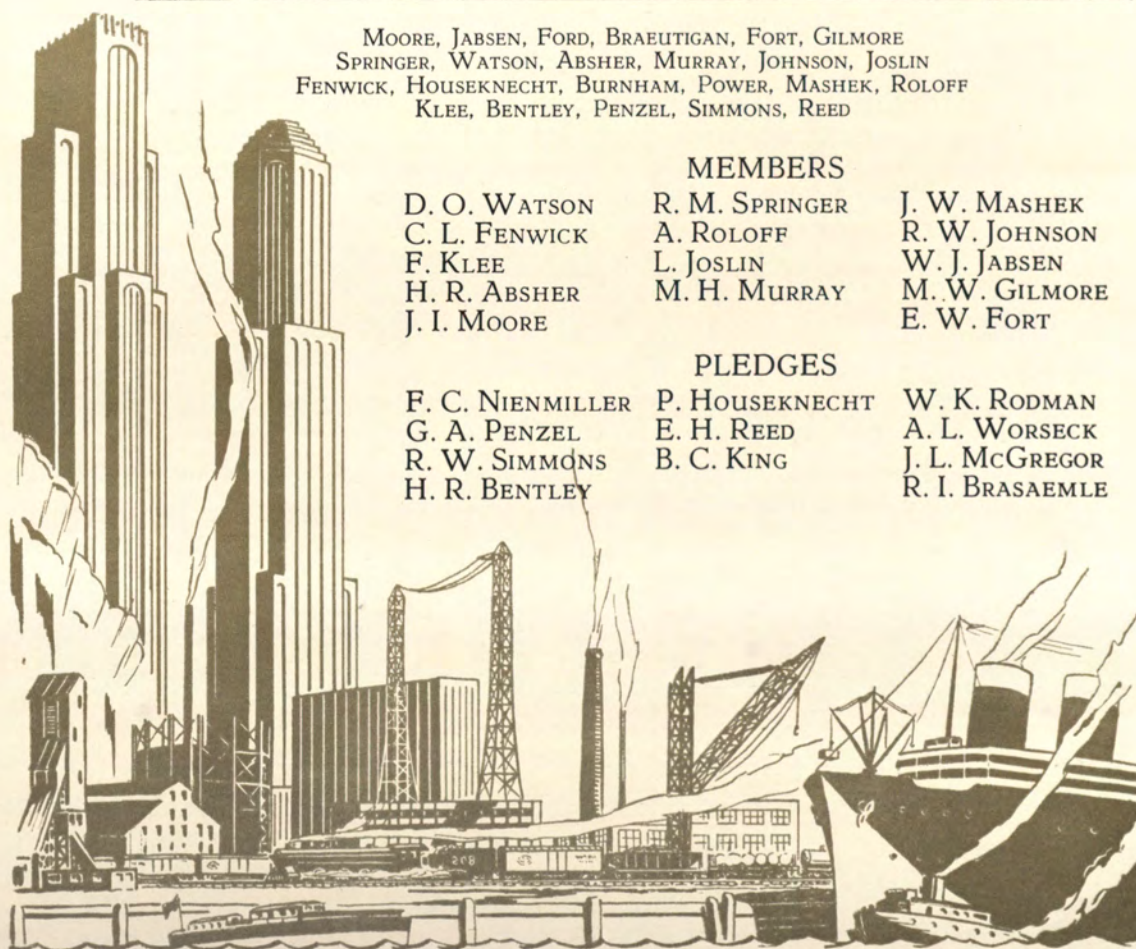
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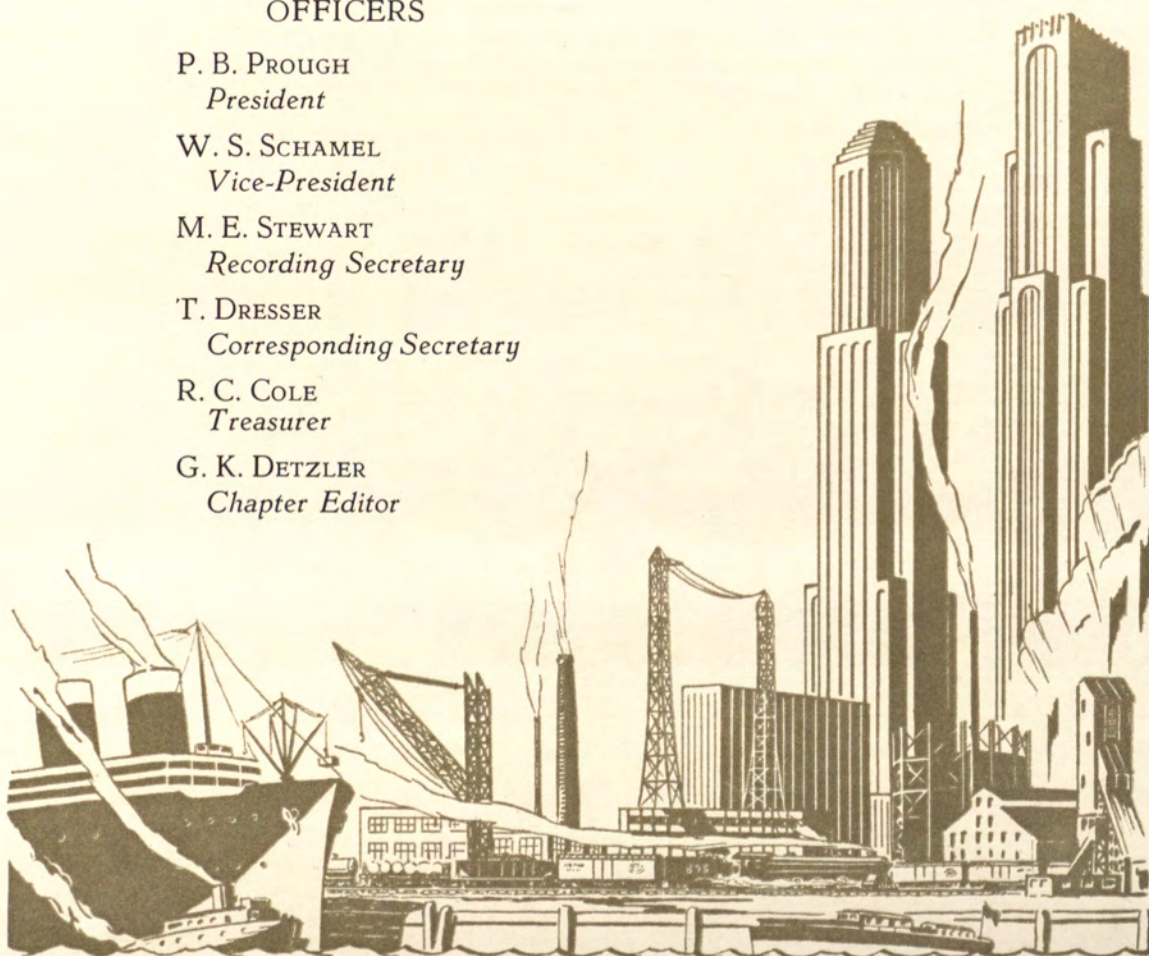
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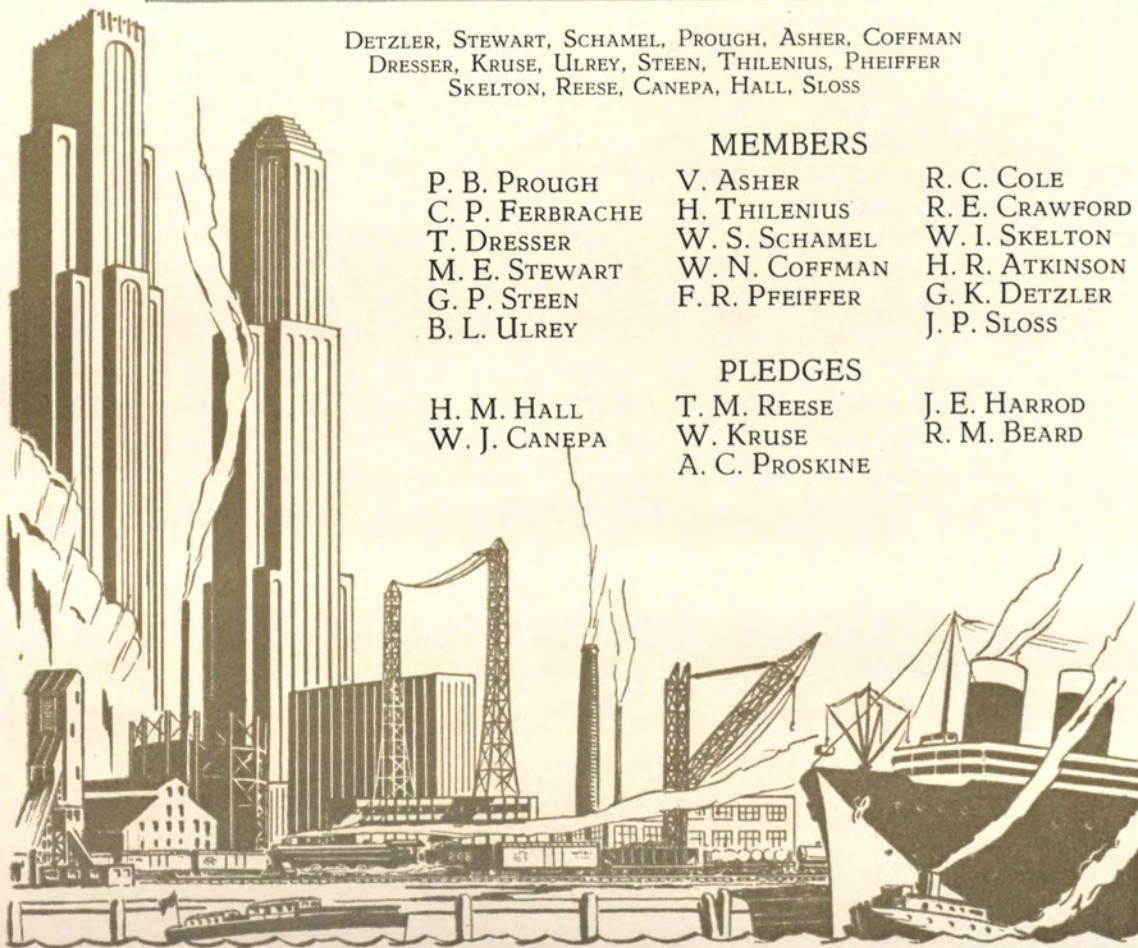
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Founded 1925 at the
Missouri School of Mines
and Metallurgy.



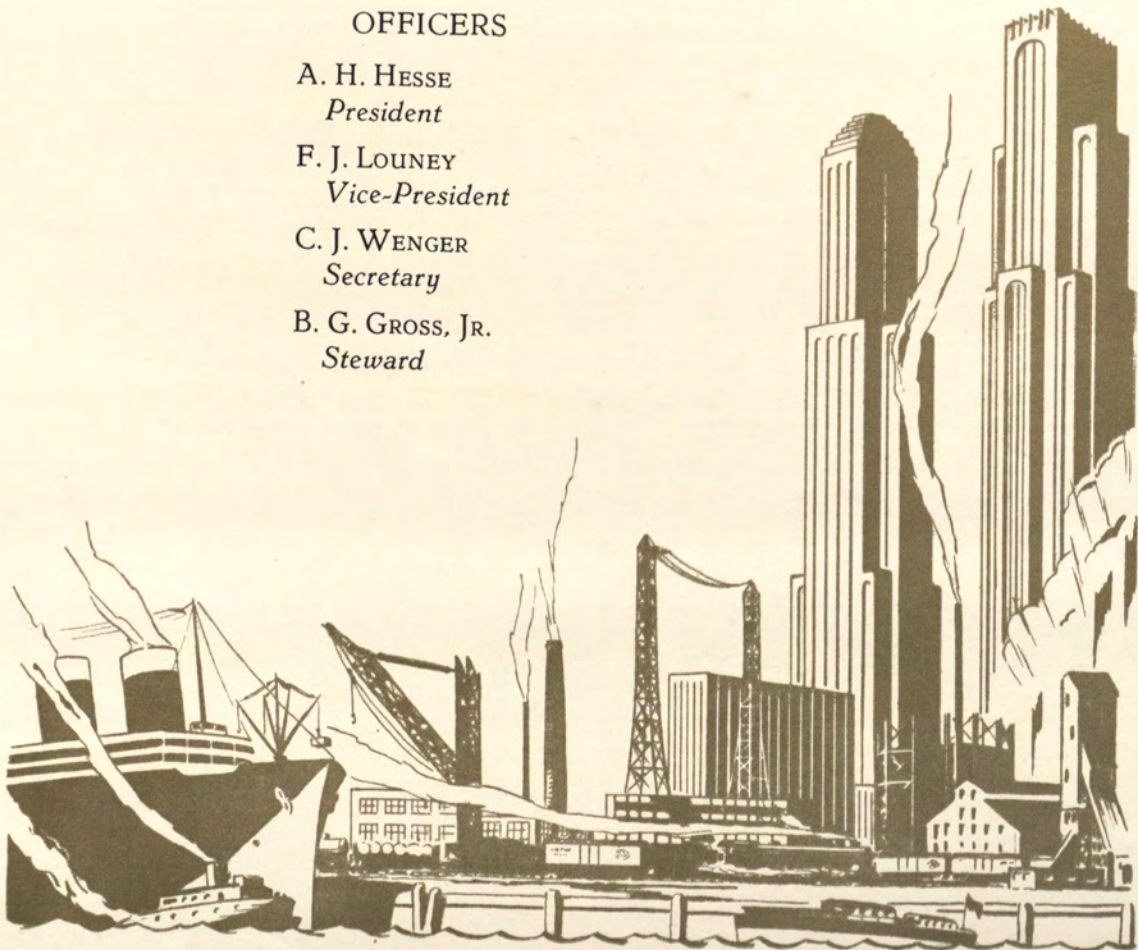
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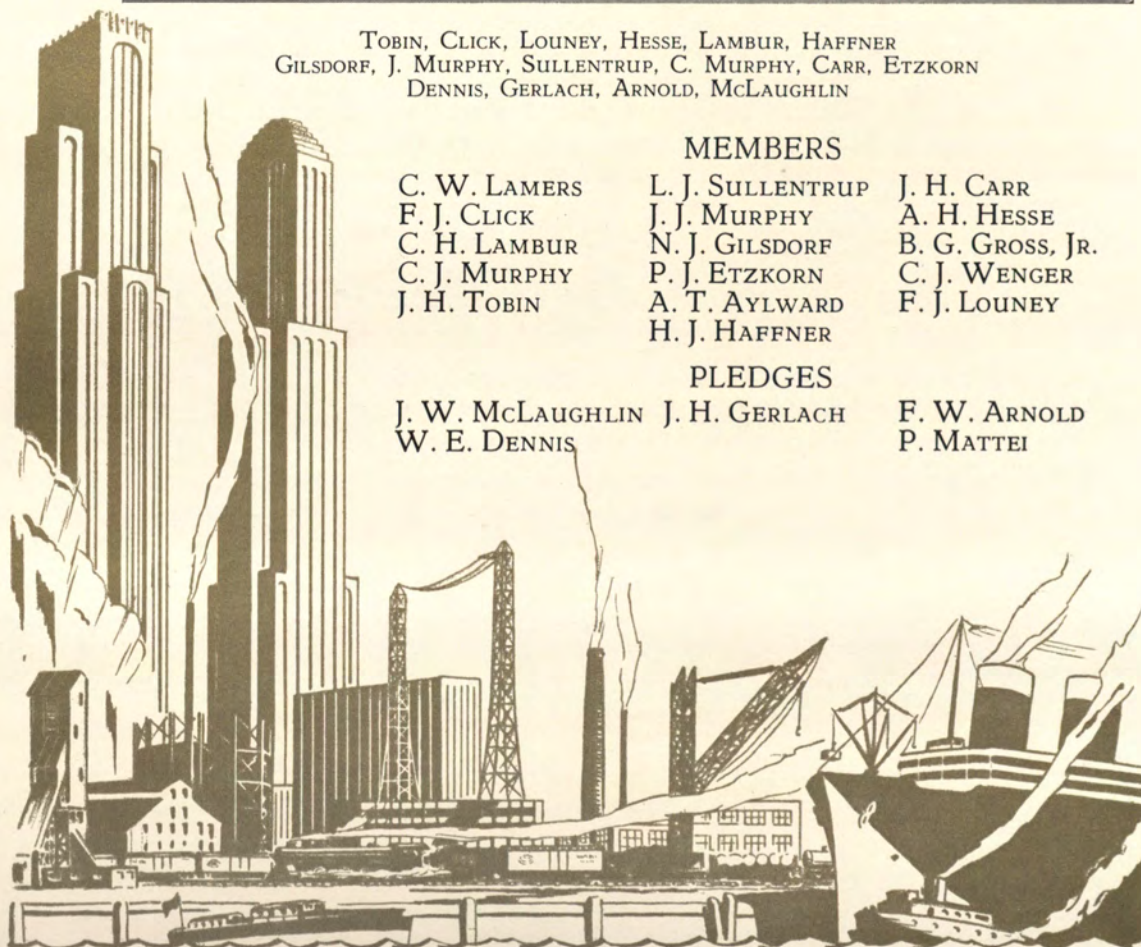
TOBIN, CLICK, LOUNEY, HESSE, LAMBUR, HAFFNER
GILSDORF, J. MURPHY, SULLENTROP, C. MURPHY, CARR, ETZKORN
DENNIS, GERLACH, ARNOLD, McLAUGHLIN

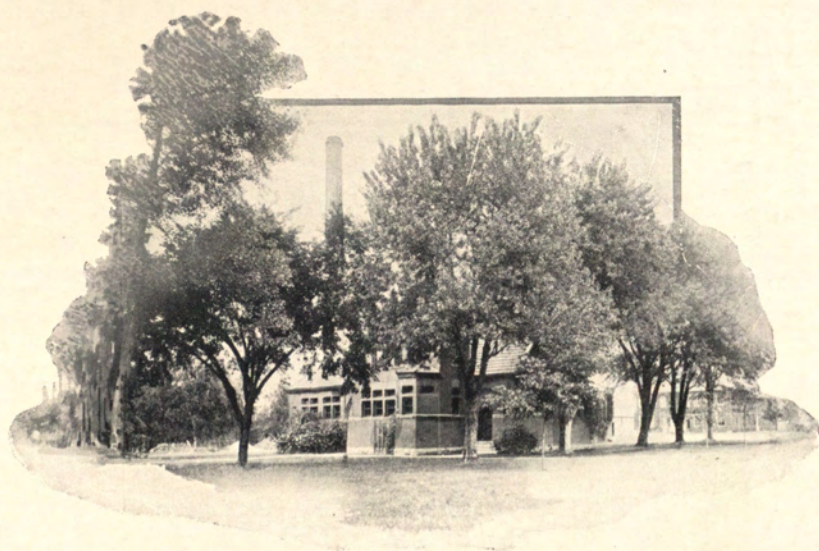
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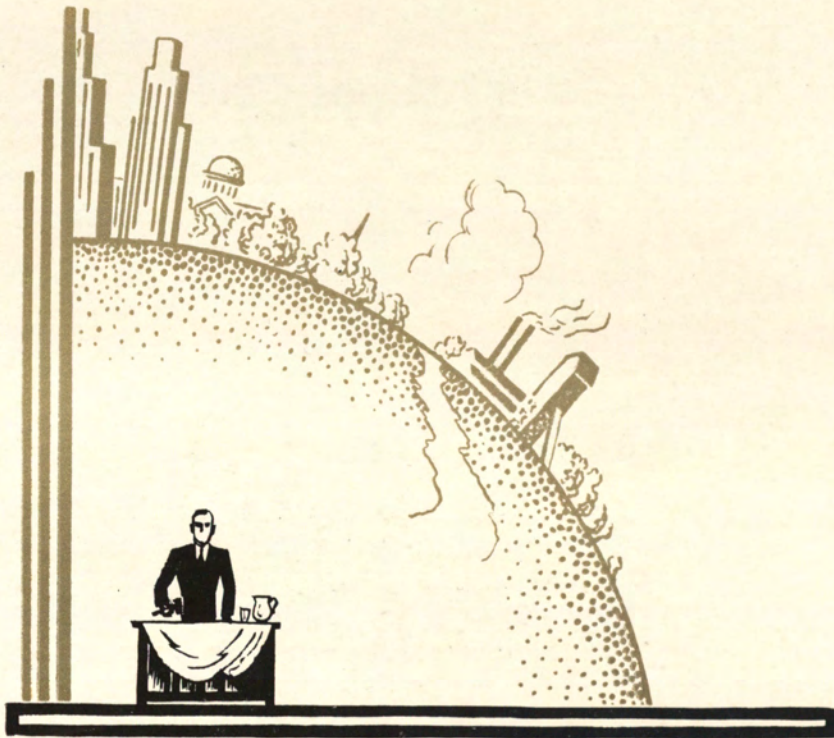
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Installed January 29, 1920

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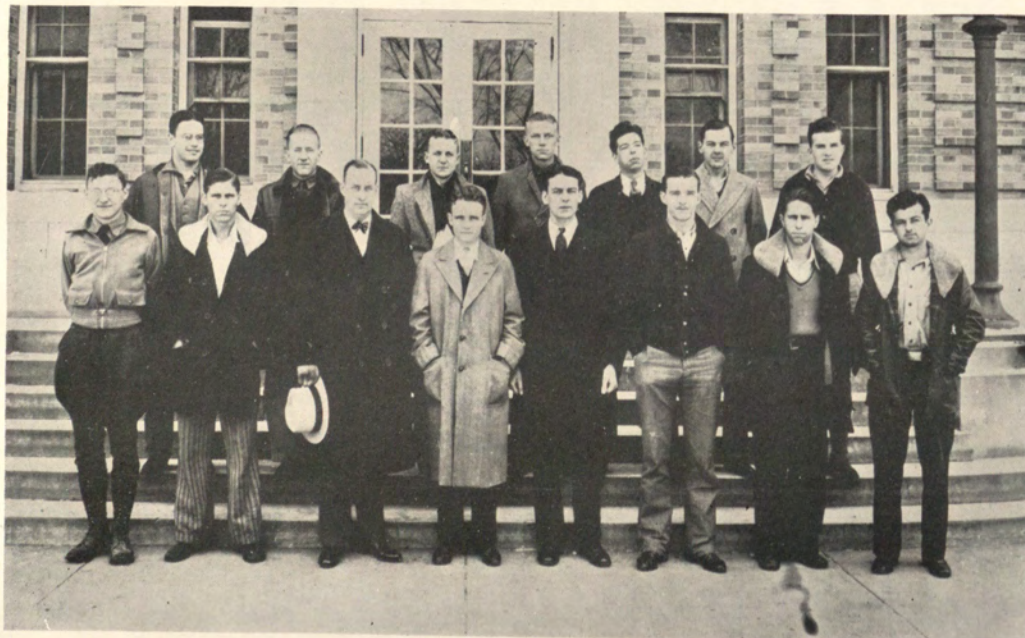
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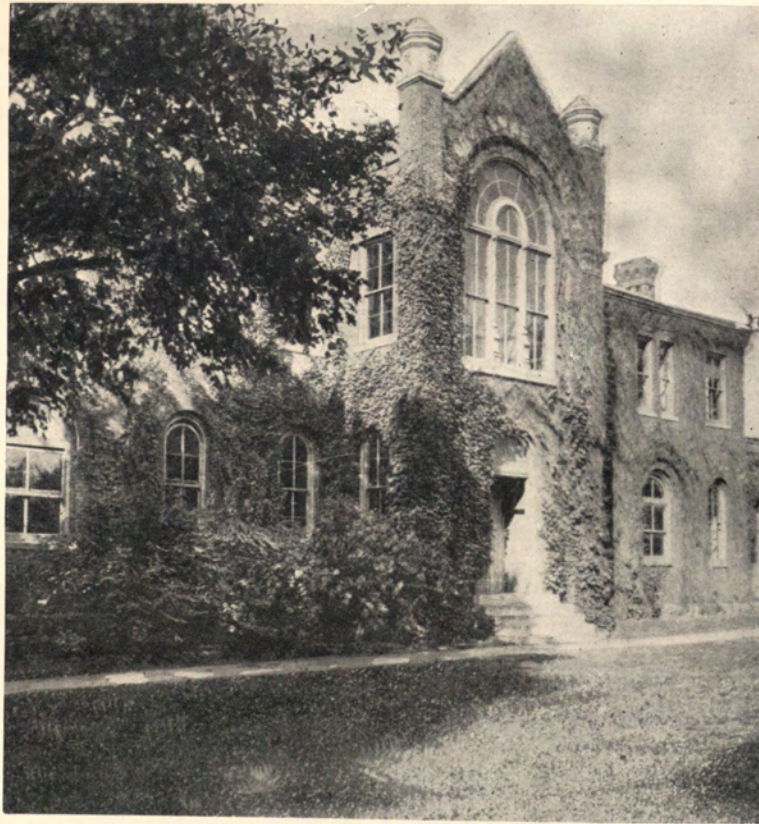
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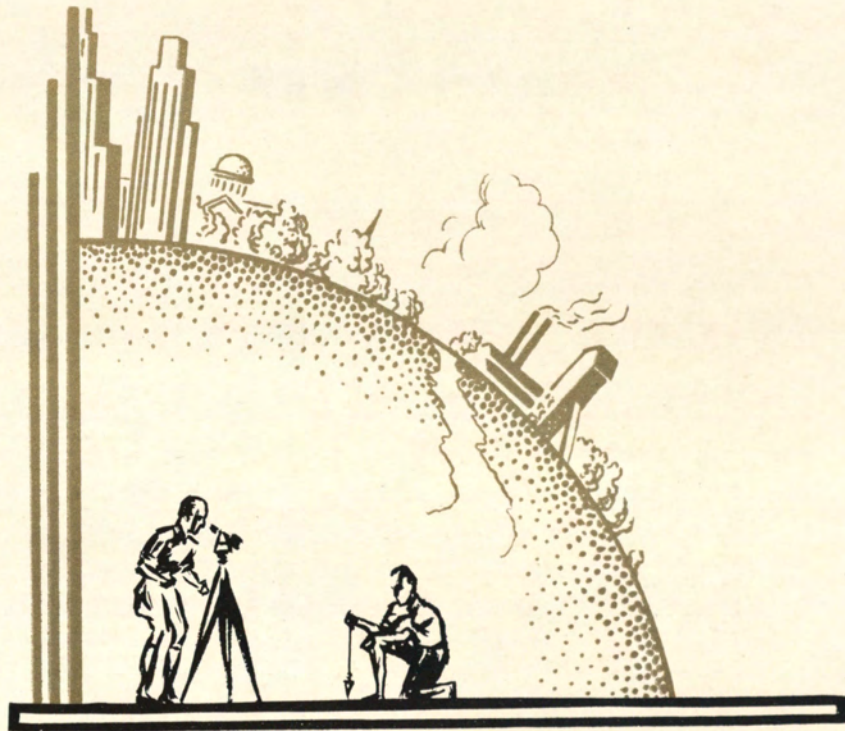
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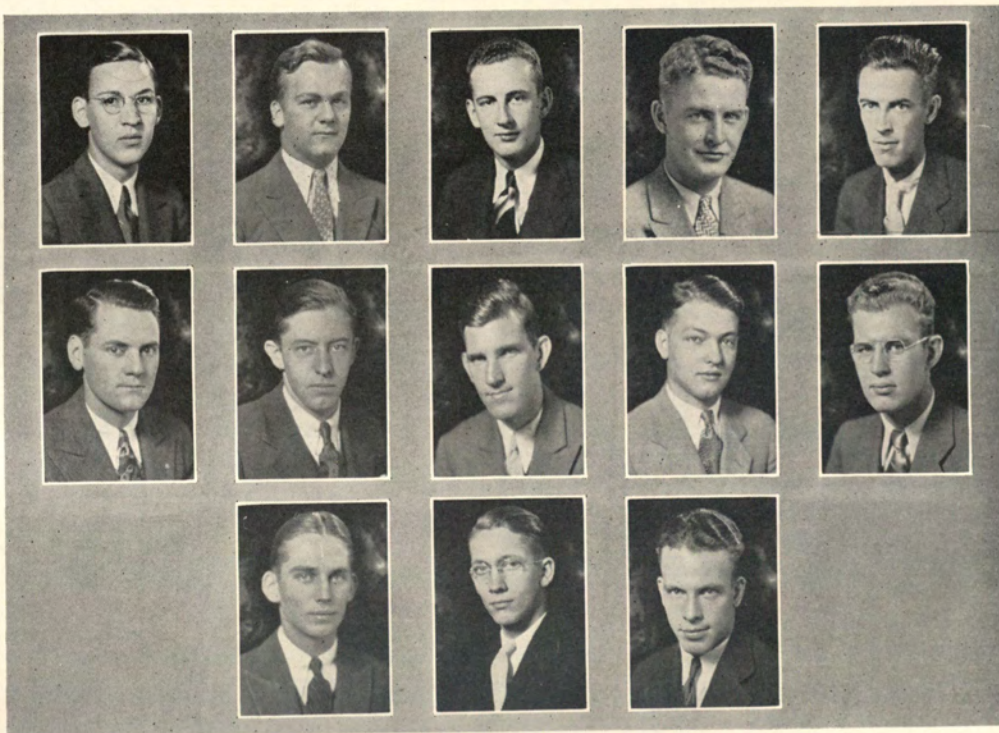
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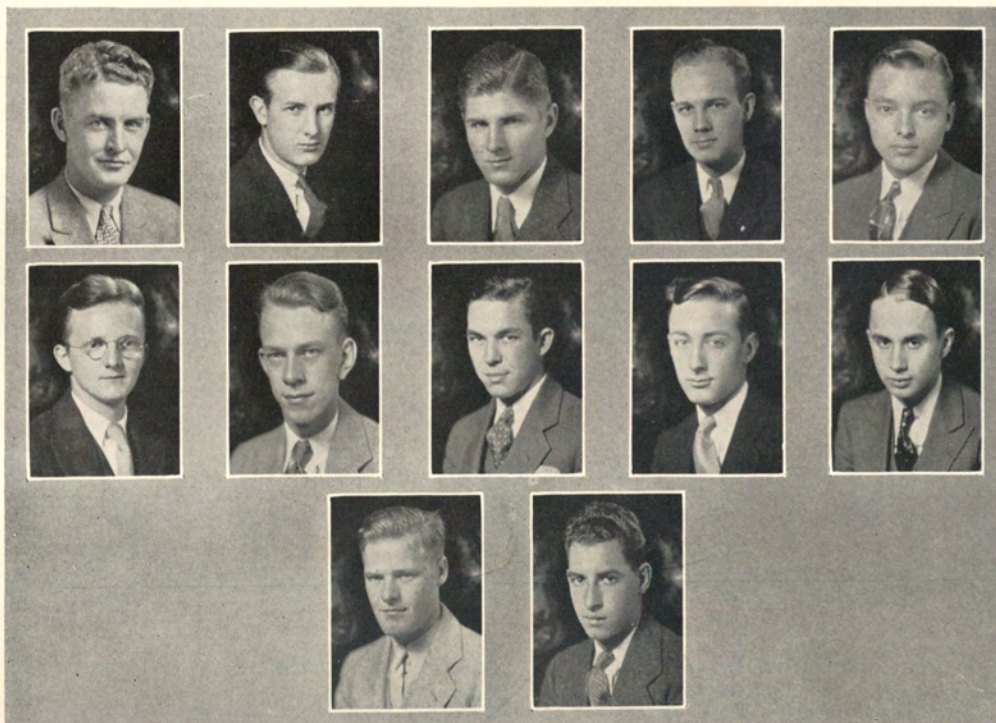
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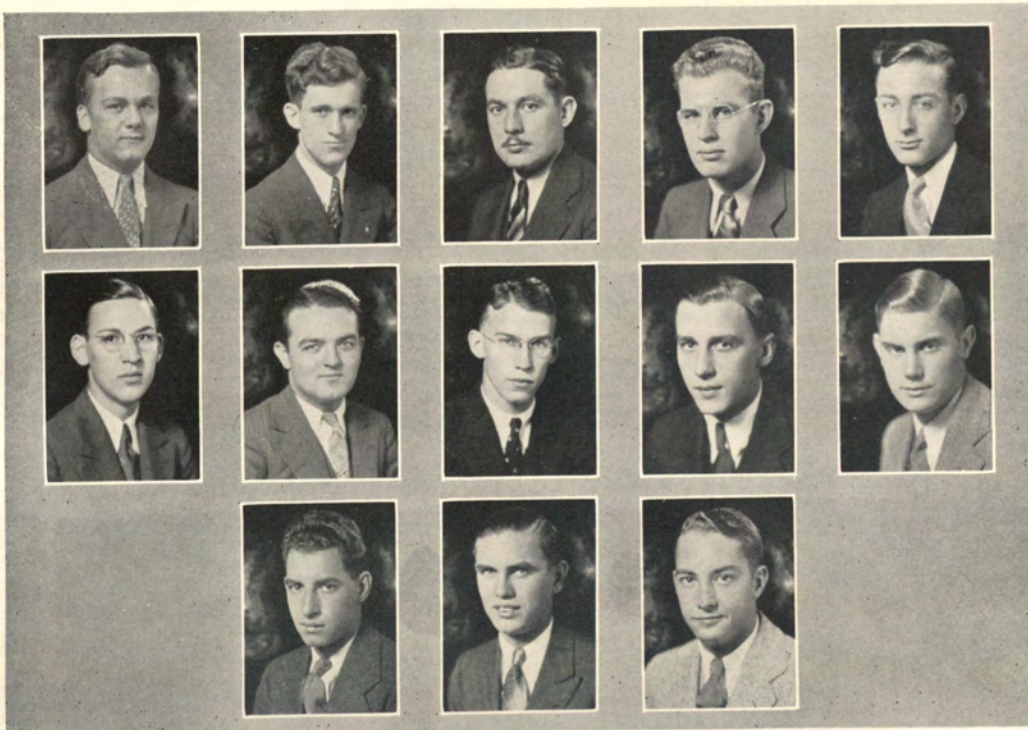
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The Missouri Miner

The Missouri Miner is a weekly paper published entirely by the students. The policy of the paper is to print the news of the school without showing partiality to any group or individual on the campus, and we can sincerely say that the 1932-1933 board has lived up to the high standard set in preceding years.

The Miner Board is made up of students chosen only after they have proved themselves proficient in one of the departments of the staff. New board members are elected in the spring by the active members.



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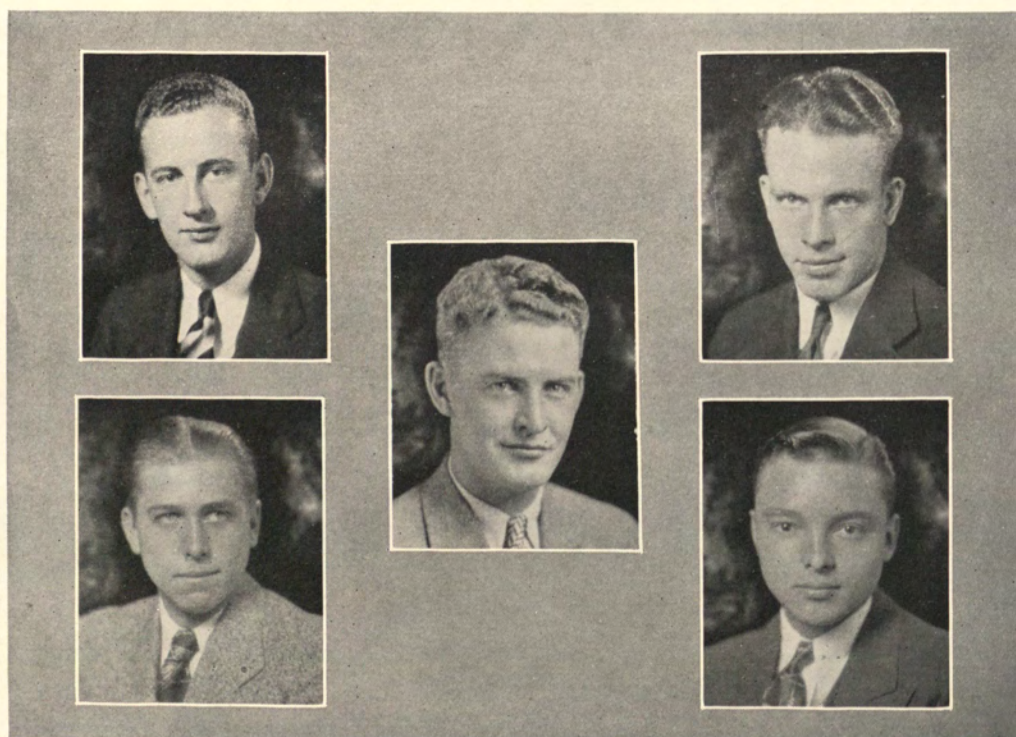
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PINKLEY, RODD, GILMORE
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MINERS

Satyrs

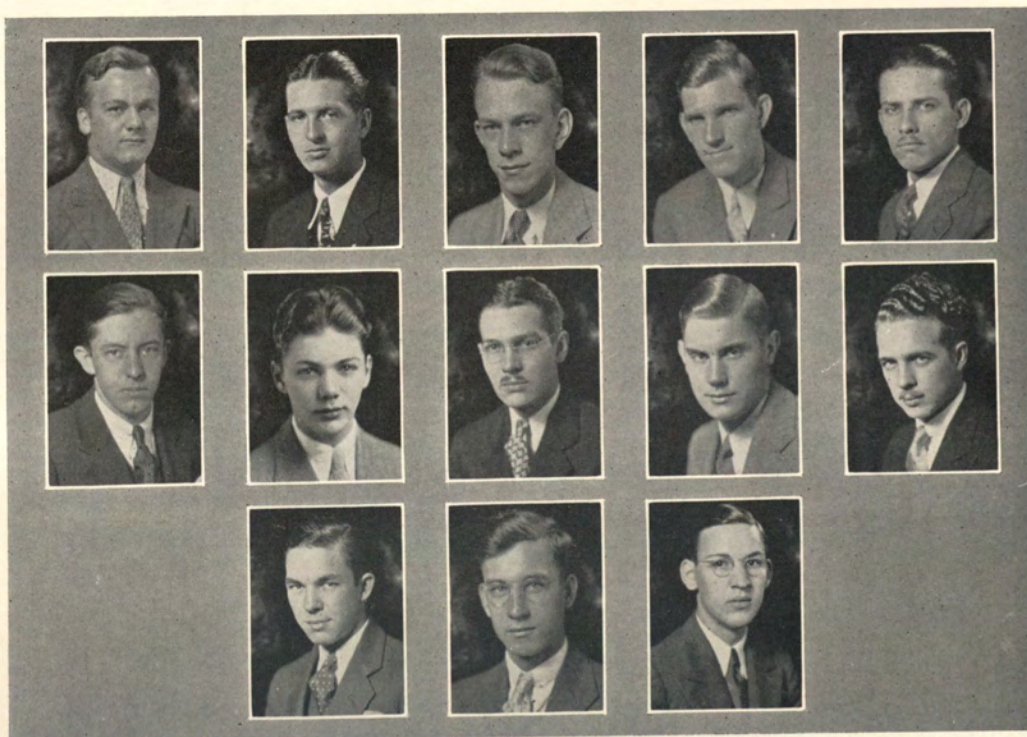
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This organization became the M. S. M. chapter of the national honorary fraternity, Blue Key, March 22, 1933.



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M. S. M. Players 1932-1933



ROYER



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H. M. HALL	J. D. MARTIN
J. E. O'BRYANT	R. E. TAYLOR



Scene from the "Adam's Apple"

Athletic Association

1932-1933

C. H. BEARDSLEY—"Shrap" was chosen to succeed R. H. Wiethop as president of the Athletic Association. Beardsley carried out the duties of president, working diligently with the welfare of the Association always in mind.

R. M. EDGAR—"Wuss" worked long and hard attending to the details of the trips of the athletic teams, taking care of the Association's finances, and co-operating with Beardsley in advancing the general interest of the Association.

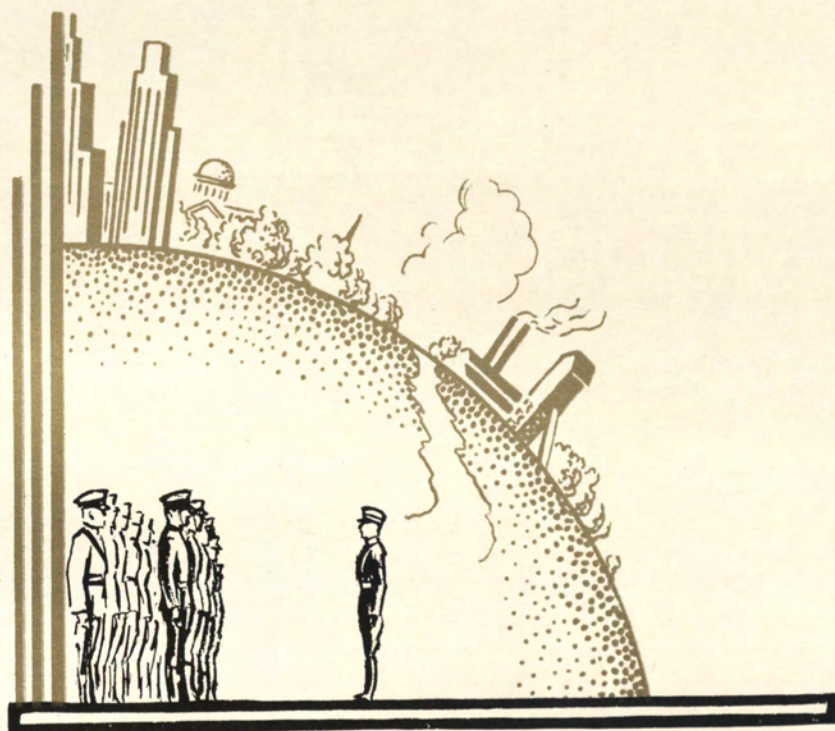
There are others who deserve honorable mention. Buck, Gillespie and Murray were Juniors who spent a great deal of time with the Association. Settle, Snyder and Twyman are Sophomores who have shown a willingness to work. The Freshmen are too numerous to mention, but they are said to be the best workers who have reported for years.



BEARDSLEY



EDGAR



MILITARY



Military



HARDIN



ITSCHNER



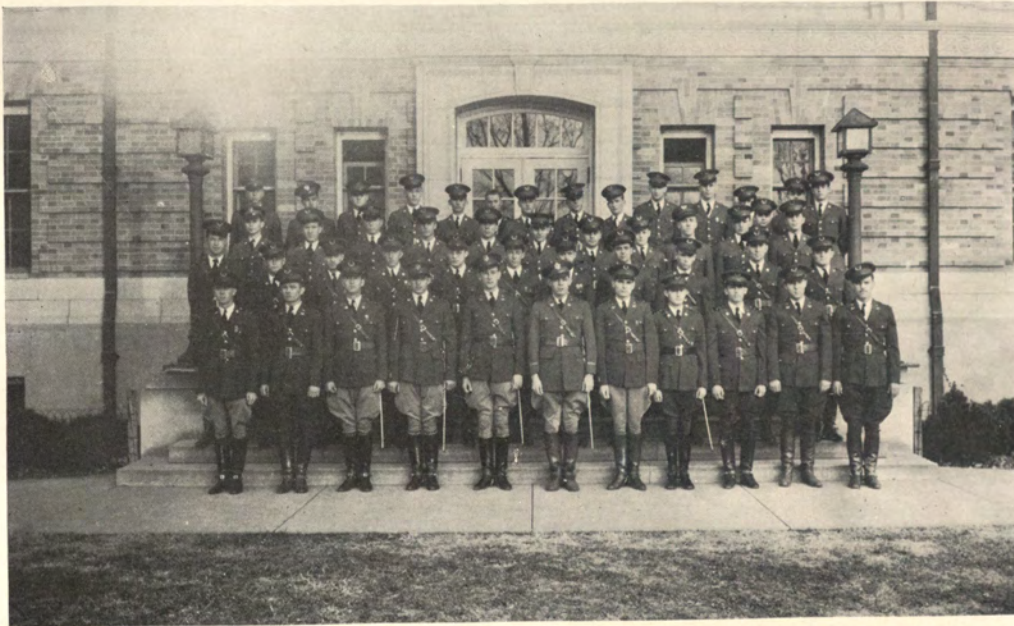
BERTRAM

First Lieutenant John Ray Hardin, Corps of Engineers, U. S. A., graduated from the United States Military Academy at West Point, November 1, 1918. He received his B. S. in Civil Engineering at the Massachusetts Institute of Technology in 1921. Lt. Hardin graduated from the Engineer School at Fort Humphreys, Va., in 1930, and was assigned to the School of Mines as Professor of Military Science and Tactics in September, 1931.

First Lieutenant Emerson C. Itschner, Corps of Engineers, U. S. A., was graduated from the United States Military Academy at West Point in 1924. He received the Civil Engineer degree at Cornell University in 1926. Lt. Itschner was graduated from the Engineer's School Company Officers Course in 1927. In addition to his other service he served two years with the Alaskan Road Commission. Lt. Itschner was appointed Assistant Professor of Military Science and Tactics at the School of Mines in September, 1932.

Sergeant William B. Bertram, D. E. M. L., U. S. Corps of Engineers, was graduated from the University of Virginia with the Degree of LL.D. in 1911 and received a similar degree from Cumberland University in 1912. He served overseas for two years with the 51st Field Artillery, was later transferred to the 2nd Engineers. Sergeant Bertram was assigned to the School of Mines in January, 1929, as an Instructor in Military Science and Tactics.

Military



ADVANCED CORPS

ENGINEER BATTALION, RESERVE OFFICERS' TRAINING CORPS, MISSOURI SCHOOL OF MINES AND METALLURGY

<i>Cadet Major</i>	MAX G. McCrory
<i>Cadet Captain and Adjutant</i>	R. W. RICHMOND
<i>Cadet Captain</i>	C. W. LAMBUR

Colors

<i>Cadet Tech. Sergeants</i>	{ KEW
	{ REESE
<i>Cadet Corporals</i>	{ DUTTON
	{ BREUNNING

COMPANY "A"

<i>Cadet Captain</i>	BURKHALTER
	{ GADDIS
	{ LATHAM
<i>Cadet Lieutenants</i>	{ HICKMAN
	{ SEIBERLING
	{ BORCHERS
<i>Cadet First Sergeant</i>	HALE
<i>Cadet Staff Sergeants</i>	{ LA FOLLETTE
	{ HEDGES
	{ SHECKLER
<i>Cadet Sergeants</i>	{ JOSLIN, R. G. 1st Plat.
	{ RICHARDSON, L. G. 1st Plat.
	{ BUCK, R. G. 2nd Plat.
	{ WALTHER, L. G. 2nd Plat.

MINERS

COMPANY "B"

Cadet Captain.....	RODD
	{ MCKINLEY
Cadet Lieutenants.....	{ BRATTON
	{ ASHER
	{ LEVY
Cadet First Sergeant.....	FORT
Cadet Staff Sergeants.....	{ DECKER
	{ DARLING
	{ CEI, R. G. 1st Plat.
Cadet Sergeants.....	{ TIEMANN, L. G. 1st Plat.
	{ FORD, R. G. 2nd Plat.
	{ ATKINSON, L. G. 2nd Plat.

COMPANY "C"

Cadet Captain.....	PINKLEY
	{ ROSENBAUM
	{ MCCLURE
Cadet Lieutenants.....	{ JURVIC
	{ ROYER
	{ ULREY
	{ HESSE
Cadet First Sergeant.....	OSWALD
Cadet Staff Sergeants.....	{ IRWIN
	{ BRAESEMLE
	{ MCCONNELL, R. G. 1st Plat.
Cadet Sergeants.....	{ WEIGEL, L. G. 1st Plat.
	{ CZYZEWSKI, R. G. 2nd Plat.
	{ SCHAMEL, L. G. 2nd Plat.

COMPANY "A"

Guidon, SMITH, J. H.

First Platoon		Second Platoon	
(First Squad)		(First Squad)	
1. LANGE	1. GRIMM	1. LISCHER	1. BRANNOCK
2. MURPHY	2. PEEBLES	2. HEITZMAN	2. SPITZER
3. AYLWARD	3. JACKSON	3. SLOSS	3. GUSTIN
CPL. SIEVERS	4. HERMANN	CPL. BERRY	4. TOWSE
(Second Squad)		(Second Squad)	
1. BOOK	1. BOLLMAN	1. BROWN	1. MCCARRON
2. ALPER	2. HILLMEYER	2. COLEMAN	2. HOENER
3. GELDMACHER	3. POST	3. WALTENSPIEL	3. CLOER
CPL. HOWE, W. A.	4. DENNIS	CPL. THOELE	4. RODMAN
(Third Squad)		(Third Squad)	
1. McDONALD	1. MENEFEE	1. HARMON	1. GREEN, M. E.
2. TUTTLE	2. FAGER	2. WEST	2. SCHWALBERT
3. KAY	3. COMPTON	3. BOMMER	3. GALLAHER
CPL. TWYMAN	4. BRIGHT	CPL. HOLDE	4. RAU

File Closers—DAILEY, GETTIER, KOAPMANN, MEYER

MINERS

COMPANY "B"

Guidon, NEEL

First Platoon

(First Squad)

- | | |
|---------------|-----------|
| 1. GILL | 1. ARNOLD |
| 2. MAYER | 2. BARROW |
| 3. MCCARTHY | 3. SPAHR |
| CPL. HARDAWAY | 4. RASOR |

(Second Squad)

- | | |
|-------------|------------|
| 1. HARROD | 1. CLANTON |
| 2. PEARSON | 2. EVANS |
| 3. BADAME | 3. FORD |
| CPL. SNYDER | 4. MICHEL |

(Third Squad)

- | | |
|------------|---------------|
| 1. HAFFNER | 1. THOMAS |
| 2. BOLL | 2. GRASSMUCK |
| 3. SZCZUKA | 3. POELLE |
| CPL. KNOLL | 4. McLAUGHLIN |

Second Platoon

(First Squad)

- | | |
|--------------|-----------|
| 1. McCASKILL | 1. ROY |
| 2. PLUMMER | 2. MATTEI |
| 3. PULLEY | 3. ASHER |
| CPL. McDILL | 4. McCAW |

(Second Squad)

- | | |
|----------------------|----------------|
| CPL. DANFORTH, W. B. | 1. HOUSEKNECHT |
| 1. BAY, L. A. | 2. BENTLEY |
| 2. BARBER | 3. FARNHAM |
| 3. STRUPP | 4. WRIGHT |

(Third Squad)

- | | |
|-------------|-------------|
| 1. KOMM | 1. DUENAS |
| 2. MACHALEK | 2. HALL |
| 3. TURKEN | 3. WARREN |
| CPL. FRANK | 4. ISHIGURO |

File Closers—MORGAN, KISER, ROLOFF, THORPE

COMPANY "C"

Guidon, HUDSON

First Platoon

(First Squad)

- | | |
|-------------------|-----------|
| 1. SPRINGER | 1. PANZEL |
| 2. SPOTTI | 2. MOONEY |
| 3. DE ROY | 3. PETERS |
| CPL. GREEN, L. H. | 4. ROSE |

(Second Squad)

- | | |
|-------------------|--------------|
| 1. FISCHER, M. M. | 1. GERLACH |
| 2. BREUER | 2. HANSON |
| 3. JOHNSON | 3. SEYMOUR |
| CPL. GILSDORF | 4. WOERHEIDE |

(Third Squad)

- | | |
|---------------|------------------|
| 1. GRAFFT | 1. STRIKER |
| 2. WORSECK | 2. TAYLOR, M. W. |
| 3. WEISSMAN | 3. SULLIVAN |
| CPL. BORGSTED | 4. TETLEY |

Second Platoon

(First Squad)

- | | |
|------------------|--------------|
| 1. PROSKINE | 1. STUTZKE |
| 2. TAYLOR, J. E. | 2. RUWE |
| 3. FENWICK | 3. SCHWAB |
| CPL. NICKEL | 4. TOWSE, M. |

(Second Squad)

- | | |
|--------------|------------|
| 1. KIRCHOFF | 1. PICHET |
| 2. HOLTSMANN | 2. WOMMACK |
| 3. KOHLER | 3. BAKER |
| CPL. DETZLER | 4. REED |

(Third Squad)

- | | |
|-----------------|--------------------|
| 1. KAMPER | 1. FISS |
| 2. MAGYAR | 2. DANFORTH, W. D. |
| 3. ROSENBLUM | 3. MARSHALL |
| CPL. REINMILLER | 4. MCKINNEY |

File Closers—GORDON, MASCHEK, BRISCH







SOCIAL

M. J. Kelly



M. H. MURRAY

St. Pat, 1933



SYBIL POWELL
St. Pat's Queen, 1933



The 18th St. Pat's

1933

After months of anxious waiting and elaborate planning, the yearly dream of the M. S. M. students was at last realized. Thursday, March 16th, came and brought with it the beginning of the annual St. Patrick's celebration. Not only did it bring St. Pat's, but along with it came many beautiful dates to adorn the M. S. M. Campus and fraternities for three days. At last the storm had broken. Happy voices were heard from all corners of Rolla. While some of the fraternities broke the old tradition and did not give house dances, others carried on in the same old manner. The Kappa Sigs and the Pi K. A.'s held a joint dance at the Sinclair Pennant Tavern. The Lambda Chis and the Merciers enjoyed a dance given at the Mercier house. The Independents held an open dance at the gymnasium, which was well attended and thoroughly enjoyed. All were excellent parties and showed the true spirit of the beginning of the three-day celebration.

At the close of these dances the crowds were somewhat dispersed, but one did not have to look far before finding a joyful party of merry-makers, if he thought it too early to go to bed. Of course some of the participants did go to bed to stow away a bit of energy for the coming days.

Friday afternoon saw the arrival of the traditional Patron Saint, accompanied by his guards and pages, pompously ushered into town on a hand car. From the Frisco Station, where he boarded his private car, he and his retinue of attendants made a short tour through the main streets of Rolla to Parker Hall, where he delivered his address, and, with a few timely remarks, knighted those who had followed him for four years through the halls of learning.

At the end of the ceremony, those attending retired to their respective places of abode for a little rest or a gay party, whichever suited their fancy most.

At ten o'clock Friday evening the merry throng began to gather at Jackling Gym, where Paul Sells and his band sent the strains of beautiful melodies throughout the hall, which was scarcely recognizable due to the elaborate decorations which had been hung there for the occasion.

The costume ball had started. Costumes of nations ranging from pole to pole, and people of every walk of life from the pauper to the millionaire playboy of Broadway appeared.

At twelve o'clock all was hushed by the strains of "The Wearing of the Green", and the guards of St. Patrick cleared a path through the loyal kow-towing subjects.

Following St. Pat came the retiring Queen, Miss Emily McCaw, wearing the crown which she has so gracefully and proudly worn for a year. She was accompanied by Bennie Gross. Next came the court of charming maids of honor—Miss Marion McKinley, Miss Grace Weigle, Miss Merle Weber, Miss

Nadine Fenwick, Miss Lois Johnson, Miss Alma Ray, Miss Bernice Roach, Miss Rowena Clawsey, and Miss Jean Bailer, accompanied by their respective escorts.

Silence—Long live the Queen. Amid thunderous applause, and preceded by the flower bearer came the new Queen, the beautiful and stately Sybil Powell. Kneeling at the throne she was crowned the 18th Queen of Love and Beauty, to take the throne and rule over the loyal subjects with the old Patron Saint.

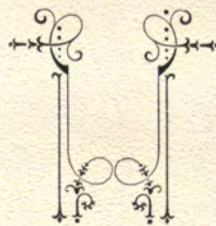
The dance was again resumed at the word of the rulers, and once more the hall was filled with the laughter and song of the merry crowd. At 3 a. m. the dance came to a close and the crowd broke into smaller groups to resume their gayeties elsewhere or to break up entirely.

Then came Saturday night and the formal closing dance of the celebration. This was preceded by the formal dinners at the various chapter houses on the campus.

Again at 10 o'clock the dancers and onlookers began to throng the dance floor and balcony of Jackling Gym. The sombre black and white of the tuxedos set off the beautiful and graceful lines of the many and vari-colored evening gowns as the couples glided across the floor to the melodious strains of the soft music which floated beneath the subdued lights.

At 3 a. m. with the playing of "Home, Sweet Home" came the ending of another joyous St. Patrick celebration. For some it was the first, for some it was the last, but for all it will go down in their memory and remain there as the time and tide of man rolls on.

J. C. SETTLE.

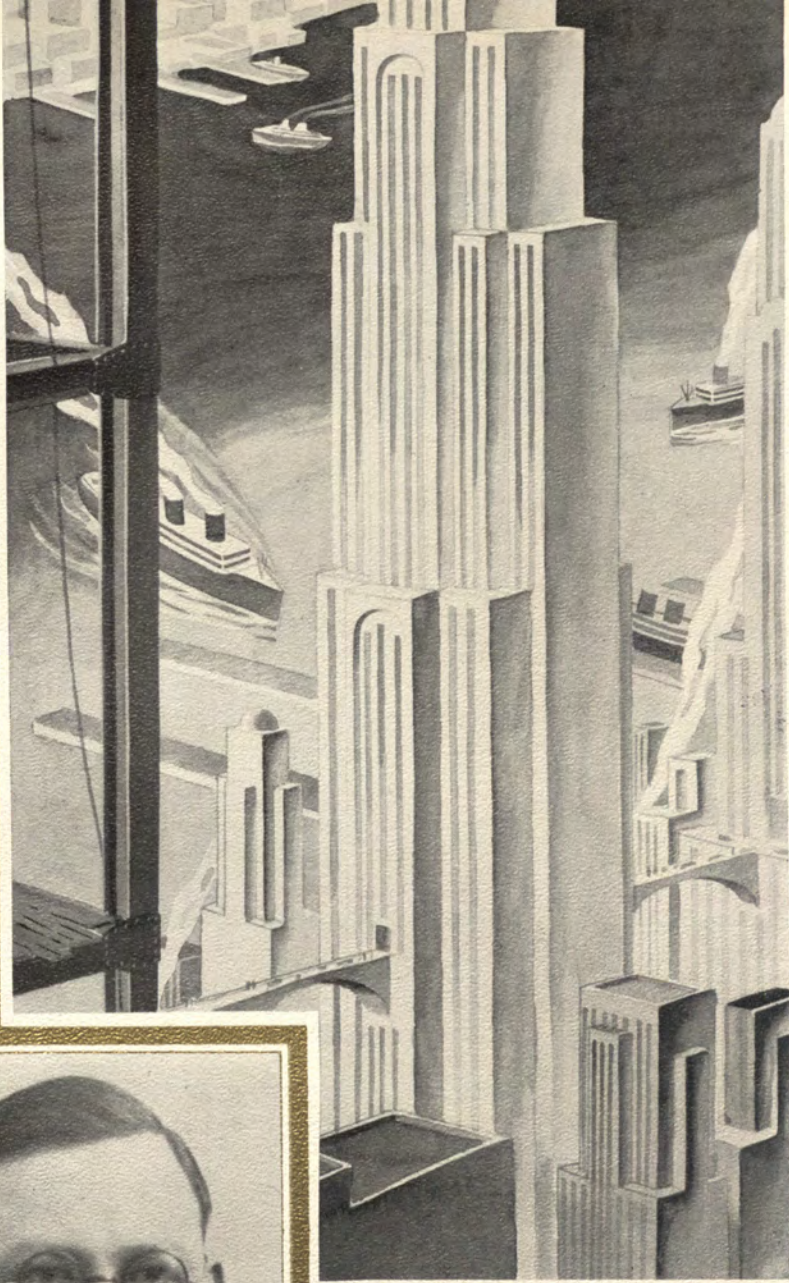


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MINERS

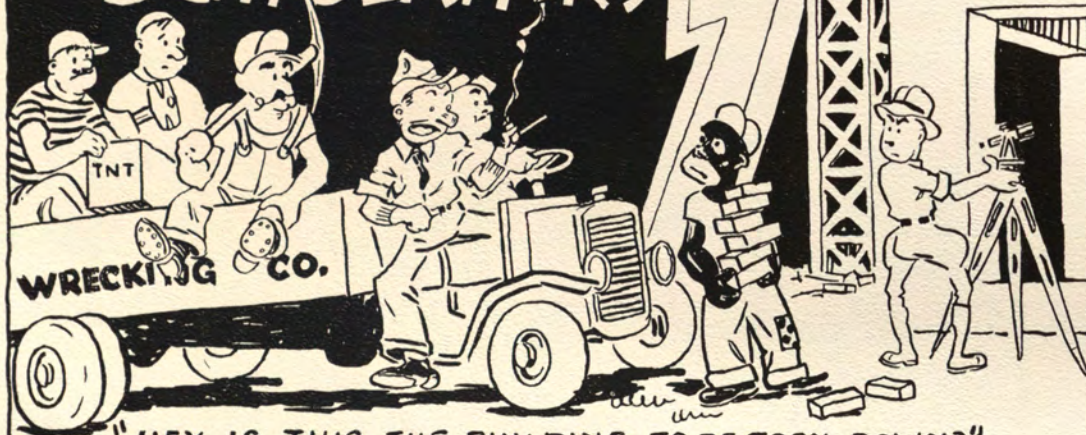




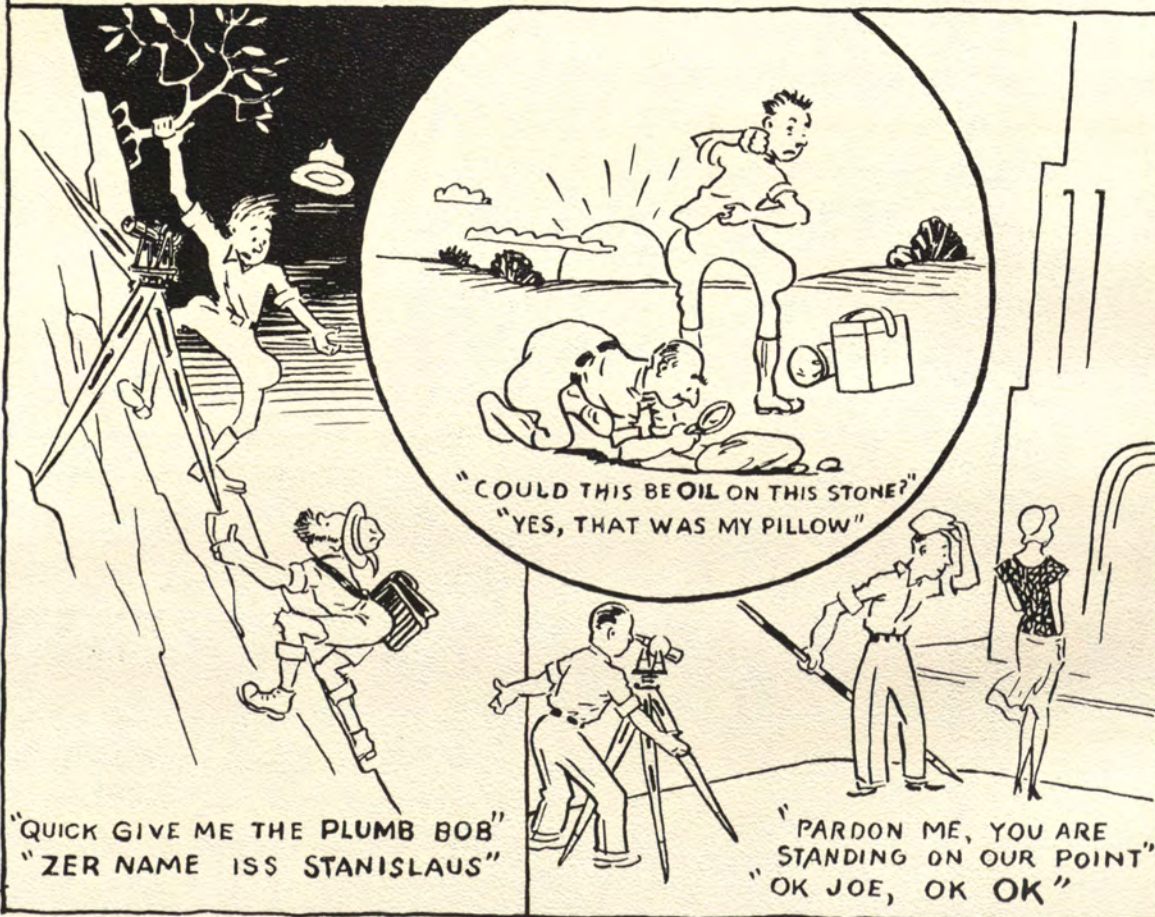
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"I DONNO BOSS, WE AINT FINISHED IT YET."



"QUICK GIVE ME THE PLUMB BOB"
"ZER NAME ISS STANISLAUS"

"PARDON ME, YOU ARE
STANDING ON OUR POINT"
"OK JOE, OK OK"

The Sex Life of the Spider

A Sequel to Sex, or How to Wash an Elephant



This section has got to settle a problem of vast importance to humans. The problem is: Have spiders the right idea, or have they not? Some time ago we

of taking a volume of the Encyclopaedia Britannica around with us to read. It helps us kill time while waiting for the professor to dismiss class. We recently got to the volume labeled "Shu-Sub"—and in it, under the article "Spiders," we came on this:

"Owing to the smaller size of the male and the greater voracity of the

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MINERS

female spider, the male makes his advances to his mate at the risk of his life and is not infrequently killed and eaten by her either before or after pairing is effected. Fully aware of this danger, he pays his respects with extreme caution. . . ."

That has set us thinking. At least, the female spider knows her own mind. As between a good meal and a little affection she makes her choice without any foolish, adolescent ro-

manticism. Now, how about us humans? Let's get started.

ADAM AND EVE

"Hello," said the serpent.

"Hello," said Eve. "How's business?"

"Slow," said the serpent. "Lots of conversation but no orders. It don't help the apple turnover."

"You're not so bad off," said Eve.

"Not compared with some," said

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the serpent. "I certainly got in on the ground floor with my apple business. I saw this Depression coming after the Third Day."

"Things'll get worse before they get better," said Eve.

"Any apples today?" said the serpent.

"I got no use for 'em," said Eve.

"What about Adam?" said the serpent.

"Adam isn't with us any more," said Eve.

"Wh-a-a-t?" said the serpent.

"He's all washed up," said Eve. "They're was a fellow around from the Paradise Home Journal the other day, wanting to see the Angel Gabriel. He had a regular trunk-load of maps and colored charts. He explained to Gabriel how they'd made a house-to-house survey of West Eden with a questionnaire on buying habits and it showed where women bought 85 per cent of all the

goods that's sold at retail. That fellow sure sold Gabriel all right. He must have been with him an hour and a half."

"So what?" said the serpent.

"So Gabriel admitted it had been a mistake creating Adam at all," said Eve, "and he just discontinued the model."

"Well," said the serpent, "if women buy 85 per cent of all the goods, how about buying some apples?"

"I told you I never use them," said Eve.

"You used to buy plenty," said the serpent.

"That was for Adam," said Eve. "He used to like them."

"He was the champeen apple eater of Genesis County," said the serpent. "But don't you see—"

"Don't give me no sales talk," said Eve. "You'd just be wasting your breath."

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MINERS

"It don't seem right," said the serpent. "I was beginning to get a nice business built up. Only two days ago I stocked up fresh specially for you."

"Oh, go crawl on your belly," said Eve.

The next day the serpent went into the hands of the Genesis County Trust Co.

SAMSON AND DELILAH

"Good morning," said the man in the loin cloth. "Are you the lady of the house?"

"You might put it that way," said Delilah, listlessly. "What's on your mind?"

"I'm from Amalgamated Shears and Snipper," said the man in the loin cloth. "You clipped one of our coupons from the Gaza Gazette and

I am calling to show you our line in person."

"Get out of here," said Delilah.

"Whether you wish to snip, shave, shear or sever," said the man in the loin cloth, "our trade-mark is your guarantee of satisfaction. Notice that our initials, A. S. S., are stamped on every blade."

"Go away," said Delilah, "and stamp them on your forehead."

"From the slenderest thread to the toughest cable," said the salesman, ignoring the discourtesy, "we have an instrument ready-made to your purpose. Hollow-ground, case-hardened edges, the finest quality of vanadium steel in each and every pair. What was it you wished to cut? Silk? Tin plate?" He gave Delilah a shrewd look. "Hair, maybe?"

"The chatter," said Delilah.

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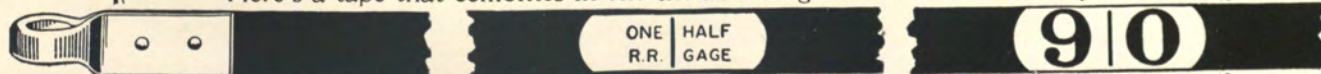
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MINERS

"What I want to cut is the chatter. I don't want any scissors. I been trying to tell you."

"But you need scissors," protested the salesman. "From the looks of that coupon you sent in, you clipped it out of the magazine with your teeth."

"If you don't want to get clipped in the same way," said Delilah, "you'll call it a day right now. I ain't in a mood to be trifled with."

"You clipped our coupon," said the salesman, "and I'm going to stay here until I find out why."

"If it'll get rid of you I'll tell you," said Delilah. "I was interested in them scissors on account of a gentleman friend who was boarding with me, but he has moved away since I clipped the coupon and now I got no use for scissors. So kindly go away and cut your throat quietly."

"Speaking of Samson, eh?" said the salesman with a sly leer.

"How did you know?" said Delilah in alarm.

"The private life of the best home run hitter in the Phillistine League ain't as private as you may have thought. But why did you want to cut his hair?" He was a House of David boy from 'way back."

"For his own good," said Delilah. "He claimed it was responsible for his stren'th, but it got in his eyes in the outfield. He was a heavy hitter but a weak fielder."

"Too bad he moved out on you," said the salesman. "The No. 7 horse-clippers would have been just the number for that job. He must of got suspicious on you."

"Them left-handers is all crazy as loon," said Delilah. "I'd like to buy

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your scissors but you see how things are."

NAPOLEON AND JOSEPHINE

The Empress Josephine of France stirred uneasily on her canopied bed.

"Napoleon," she whispered, "are you awake?"

"Supposin' I am?" said Napoleon.

"Nothing, dear, only I haven't closed my eyes for the last three hours, thinking how cross you were at the Ball tonight," said Josephine. "Wasn't I beautiful enough?"

"You were all right," said Napoleon glumly.

"I had hoped you would have been a little more enthusiastic," sighed Josephine, attempting a slight nuzzling movement, but without success. "The Comtesse d'Asperge spent hours preparing me, with the most alluring cosmetics in the kingdom."

"That raspberry perfume don't go good with me," said Napoleon, "it smells up the whole palace."

"Then I shall change it," said the Empress. "Your slightest wish—"

"Oh, never mind," said Napoleon. "That ain't the main thing."

"What do you mean, not the main thing?" the Empress asked in alarm.

"You know what I mean," said Napoleon, tacking to starboard.

This allusion to the great problem of the Empress brought her bolt upright in bed.

"But, darling," she protested "surely you know how I've hoped—"

"It don't seem to make no difference," said Napoleon. "All I've ever asked of you is one very simple thing: I want a Male Heir."

"Aren't you just teeniest-weeniest bit unreasonable?" asked the Em-

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press. "Aren't you willing to wait until I've tried—"

"Listen, Josephine," said the Emperor. "I'm tired of waiting. I bet you've taken a chew of every root and bark and herb in the kingdom. You've drank infusions of toad's eyelashes in the full of the moon for the last six years. And still nothing happens. Well, I gotta change my luck. And that means you and me is going to have it melted. Savey?"

"So Josephine cried and cried,

and Napoleon went out and got tighter'n Circe's girdle."

— — —
What we have been trying to prove is—"Is man a useful animal or just so much snow-water?" Statistics state that women do 85 per cent of the buying, and hence companies' advertising should be to women. If you can find an ad here that is dedicated to a blonde (ye Ed's weakness) or even a brunette you win the silver-plated beer can.

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